



DMD - EEx d(e) IIC T4 motor

English

- IEC size 71 ~ 315, Iso F (B-rise), IP55
- Size 71 ~ 315 standard with PTC 145°C
- PTB/ATEX certificate for size 71 ~ 315
- Easily mountable feet and B5 / B14 flange
for size 71 ~ 160
- Twospeed motors available
- Quality Bearings



DMD - EEx d(e) IIC T4 Motor

Deutsch

IEC Baugröße 71 ~ 315, Iso F (nach B), IP55 -
Baugröße 71 ~ 315 standard mit PTC 145°C -
PTB/ATEX Zertifikat für Baugröße 71 ~ 315 -
Füße und Flansche für Bg. 71 ~ 160 -
einfach zu montieren
Diverse polumschaltbare Motoren möglich -
Qualitätslagerung -



DMD - Moteur EEx d(e) IIC T4

Français

- Hauteur d'axe 71 ~ 315, classe F (échauffement B), IP55
- HA 71 ~ 315 Equipé d'origine avec CTP 145°C
- Certificat PTB/ATEX pour les hauteurs d'axe 71 ~ 315
- Montage facile des pattes et brides pour
les hauteur d'axe 71 ~ 160
- Possibilités moteurs multi-vitesse
- Roulement de qualité



DMD - Motor EEx d(e) IIC T4

Español

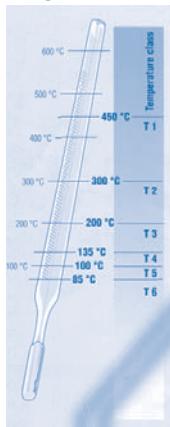
IEC Tamaño 71 ~ 315, Iso F (B-rise), IP55 -
Tamaño 71 ~ 315 Standard en un set PTC 145°C -
PTB/ATEX Certificado para tamaño 71 ~ 315 -
Facilidad de montaje para pies y bridas, -
para tamaño 71 ~ 160
Disponible para motores de dos velocidades -
Calidad de rodamientos -

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Ignition temperature - temperature class

The ignition temperature is influenced by various factors such as size, shape, type and composition of a surface. In IEC 79-4, IEC, CENELEC and other standards the authorities have agreed on a "procedure for the determination of ignition temperature" with a limit approaching the lowest possible value.

The gases and vapours are classified into temperature classes. In accordance with these temperature classes, electrical equipment is tested for its maximum surface temperature to ensure that the possibility of ignition due to the surface temperature is excluded in normal and abnormal operation. The standards specify to which extent these standard values may be exceeded and determine the necessary safety margins.



Temperature class	Ignition temperature range of mixture	Permissible surface temperature of electrical equipment	Permissible temperature rise
T1	> + 450°C	+ 450°C	+ 410°C
T2	> + 300°C ~ ≤ + 450°C	+ 300°C	+ 260°C
T3	> + 200°C ~ ≤ + 300°C	+ 200°C	+ 160°C
T4	> + 135°C ~ ≤ + 200°C	+ 135°C	+ 95°C
T5	> + 100°C ~ ≤ + 135°C	+ 100°C	+ 60°C
T6	> + 85°C ~ ≤ + 100°C	+ 85°C	+ 45°C

Examples of the categorisation of gases and vapours in temperature classes and explosion protection subgroups.

	T1	T2	T3	T4	T5	T6
IIA	Methane					
IIB		Propane Ethylene		Petrol Diethylether	Acetaldehyde	
IIC	Hydrogen	Acetylene				Carbon disulphide

Maintenance of explosion protection

Maintenance of explosion protection during operation.

Electric machines must be protected against overheating due to overloads. The type of protection depends on the type of operation as well as the electric machine and its use.

Explosion-proof electric motors are usually certified for S1 type of operation, i. e. continuous operation. Other duties are allowed only if the temperature of the motor is controlled by reliable devices.

Duty type	Protective control device
S1	A Motor safety switch according to IEC 34-1 (VDE 0165/9.83). B Motor safety switch and temperature sensors in windings as additional protection. C Only temperature sensors as major protection. Only allowed if motor is tested and certified and if all control devices (power supplies) used are certified.
S2 / S3	D Motor safety switch with switch-on time control and/or temperature sensors in windings as additional protection. E Temperature sensors in windings as major protection. Only allowed if motor is tested and certified and if all control devices (power supplies) used are certified.
S4 / S5 / S6 / S7 / S8	F Temperature sensors in windings. Motor must be tested and only certified control devices may be used.
Power supply by means of frequency converters	G Thermal protection of motor by means of sensors in windings is allowed as the only (independent) protection, if motor is tested at all power supply frequencies, maximum voltage and S1-S7 (S8) types of operation. H If motor protection and converter are tested and certified as a unit.

Introduction

Explosion-protected electric motors are used in industrial plants with a potentially explosive atmosphere containing inflammable fumes (vapours) or gases (i. e. chemical industry, oil refineries ...) as well as in mines where methane is present.

These are the three-phase, asynchronous electric motors with short-circuit rotor, explosion protected according to the CENELEC EN 60079-0, EN 60079-1, EN 60079-7 (IEC 60079-0, IEC 60079-1) standards. The enclosures of electric motors are designed to be "flameproof" according to EN 60079-0 (IEC 60079-1). The terminal boxes could also be in "flameproof" design or also in "increased safety" design according to EN 60079-7 (IEC 60079-7).

The following regulations and standards have been considered in designing, manufacturing and testing of electric motors:

Standard	IEC International	EN-CENELEC Europe
- Rotating electric machines - classification of insulation materials for electrical machines	IEC 60034-1	EN 60034-1
- Climatic protection (IP number) Protection against harmful contact and ingress of solids	IEC 60034-5	EN 60034-5
- Cooling devices for electric machines	IEC 60034-6	EN 60034-6
- Construction of mounting of electric machines	IEC 60034-7	EN 60034-7
- Marking of terminals and directions of rotating of electrical machines	IEC 60034-8	EN 60034-8
- Noise levels	IEC 60034-9	EN 60034-9
- Starting performance of short-circuit motors at 50Hz and voltages up to 660V	IEC 60034-12	EN 60034-12
- Limited vibration levels for electrical machines	IEC 60034-14	EN 60034-14
- Relation between terminal sizes and ratings of three-phase short-circuit surface-cooled electric motors	IEC 60072-1, DIN 42673/3	-
- Relation between terminal sizes and ratings for arrangements: IM B5, IM B10, IM B14.	IEC 60072-2	-

European directives:

Description	Directive No.
- Directive for explosive atmospheres (ATEX)	94/9/EC, 1999/92/EL
- Electromagnetic Compatibility (EMC)	89/336/EEC
- Low Voltage Directive (LVD)	73/23/EEC
- Machinery Directive	98/37/EC
- Packaging and packaging waste	94/62/EC

Construction

Explosion protection standards taken into consideration during manufacturing and testing.

Standard	IEC International	EN-CENELEC Europe
- Electric devices operating in explosive atmospheres Standard type	IEC 60079-0	EN 60079-0
- Electric devices operating in explosive atmospheres Flameproof "d"	IEC 60079-1	EN 60079-1
- Electric devices operating in explosive atmospheres Increased safety "e"	IEC 60079-7	EN 60079-7

Construction:

Electric motors are of totally enclosed, fan cooled (TEFC) (blow-over) type. Cooling is provided by fans blowing external air over the ribbed outside surface (cooling system IC 411 according to IEC 34-6 or EN 60034-6). Electric motors up to 225 frame size are made of grey cast iron. Motors frame sizes of 250 and more are made of welded housing and the terminal boxes of grey cast iron.

Frame size	Stator		Shields	Flange	Terminal box	Fancover	Fan				
	Frame	Feet									
71	Cast iron	Cast iron screw on feet	Cast iron	Cast iron	Cast iron	Steel sheet (extruded)	Plastic				
80											
90											
100											
112											
132		Cast iron screw on feet					Aluminium				
160											
180											
200											
225											
250	Welded steel sheet	Welded steel sheet	Welded steel sheet	Welded steel sheet	Welded steel sheet	Welded steel sheet	Welded steel sheet				
280											
315											

Bearings

The following table lists the bearings used in the different motors. The bearings last about 20.000 hours in 4, 6 and 8 pole motors if the loads do not exceed the values indicated in the tables on pages 12 and 13.

Only the latest and most innovative bearings of known producers have been used in our motors. On customer request we equip the motors with other bearings (depends on the respective construction!).

The rotors are standard constructions and fixed on the D-end (frame size 71 mm to 160 mm) and B-end (frame size 180 mm to 225 mm).

Bearings:

Frame size	Poles	DE Bearing	NDE Bearing	Bearing dishers
71	2 - 8	6203 ZZ C3	6203 ZZ C3	17 x 40 x 12
80	2 - 8	6204 ZZ C3	6204 ZZ C3	20 x 47 x 14
90	2 - 8	6205 ZZ C3	6205 ZZ C3	25 x 52 x 15
100	2 - 8	6206 ZZ C3	6206 ZZ C3	30 x 62 x 16
112	2 - 8	6206 ZZ C3	6206 ZZ C3	30 x 62 x 16
132	2 - 8	6208 ZZ C3	6208 ZZ C3	40 x 80 x 18
160	2 - 8	6308 ZZ C3 * NU 308	6308 ZZ C3	45 x 100 x 25
180	2 - 8	6309 ZZ C3 * NU 309	6309 ZZ C3	50 x 110 x 27
200	2 - 8	6310 ZZ C3 * NU 310	6310 ZZ C3	60 x 130 x 31
225	2 - 8	6312 ZZ C3 * NU 312	6312 ZZ C3	65 x 140 x 33
250	2 - 8	6314 ZZ C3 * NU 314	6314 ZZ C3 ** 6314MC3 VL0241	70 x 150 x 35
280	2 - 8	6316 ZZ C3 * NU 316	6316 ZZ C3 ** 6316MC3 VL0241	80 x 170 x 39
315	2 - 8	6317 ZZ C3 * NU 317	6317 ZZ C3 ** 6317MC3 VL0241	85 x 180 x 41

* NU Bearings for belt drive possible from frame size 160 and up;

** For frequency drive we strongly recommend current isolated bearing from frame size 250 and up.

Bearing Lubrication:

Motors are normally fitted with permanently greased bearings of Type ZZ. According to experience the filled in grease will be sufficient for several years.

Motors fitted with grease nipples:

Motors from frame size 160 and above can be fitted with regreasable bearings. For motors with lubrication system we recommend not to exceed lubrication interval of two years in any case. Lubricate the motor when operational. If the motor is fitted with a lubrication plate, use values given, or use values given in the table beside. These values are according to L1 – principle.

The effectiveness of motor lubrication should be checked by measuring the surface temperature of bearing endshield during normal operating conditions. If the measured temperature is +80 °C or above, the relubrication intervals must be shortened. Relubrication interval should be halved for every 15K increase in bearing temperature. If this is not possible then use the lubricants suitable for high operation temperature conditions.

Ball Bearing: lubrication intervals in duty hours:

Frame size	Amount of grease	Speed of the motor [min ⁻¹]					
		3600	3000	1800	1500	1000	500
160	25 gr	7000 h	9500 h	14000 h	17000 h	21000 h	24000 h
180	30 gr	6000 h	8000 h	13500 h	16000 h	20000 h	23000 h
200	40 gr	4000 h	6000 h	11000 h	13000 h	17000 h	21000 h
225	50 gr	3000 h	5000 h	10000 h	12500 h	16500 h	20000 h
250	60 gr	2500 h	4000 h	9000 h	11500 h	15000 h	18000 h
280	70 gr	2000 h	3500 h	8000 h	10500 h	14000 h	17000 h
315	90 gr	2000 h	3500 h	6500 h	8500 h	12500 h	16000 h

Roller Bearing: lubrication intervals in duty hours:

Frame size	Amount of grease	Speed of the motor [min ⁻¹]					
		3600	3000	1800	1500	1000	500
315	45 gr	1000 h	1700 h	3000 h	4300 h	6000 h	8000 h

At an ambient temperature of ≤ 25°C, twice the grease life can be expected, however, 33000 hours at a maximum.

In case of frequency converters and in continuous operation at very low speeds, as well as at low temperature, the lubrication capabilities of standard greases may not be sufficient and special greases with additives are needed.

If motors are equipped with sealed bearings (i.e. bearings greased for life) any deviation in the operating temperature from design temperature will result in a change in lifetime of bearings.

The use of conductive greases for elimination of bearing currents is not recommended due to their poor lubrication characteristics and low conductivity.

Regreasing or replacement of greases is only allowed with grease quality of the same kind (same saponification component or consistency).

Noise and vibration levels

Noise level:

The noise level of electric motors is below the limits prescribed by the IEC 60034-9 recommendation for fan-cooled (blow-over) electric machines.

Vibration level:

The rotors of electric motors are dynamically balanced with installed fan and 1/2 key. Vibration amplitude corresponds to N grade (normal) according to IEC 60034-14 (ISO 2373-N grade).

Limit values for the vibration of electric machines (IEC 34-14 / DIN ISO 2373)				
Degree	Rotation speed [min ⁻¹]	Limits of V _{ef} in mm/s		
		71 up to 132	160 up to 225	250 up to 315
N (normal)	600 ~ 1800 1800 ~ 3600	1.8	2.8	3.5
R (reduced)	600 ~ 1800 1800 ~ 3600	0.71 1.12	1.12 1.8	1.8 2.8
S (special)	600 ~ 1800 1800 ~ 3600	0.45 0.71	0.71 1.12	1.12 1.8

The vibration level is the maximum r. m. s. value of vibration velocity in a frequency range from 10 Hz to 1.000 Hz, measured according to DIN ISO 2373, IEC 60034-14.

Terminal box and terminals for supply cable

Terminal box:

The terminal box is fitted to the top of the motor with the cable entering from the fan end of the motor. It can be repositioned in steps of 90° to 180° to suit the application.

The motors with direct starting are equipped with 3 connection terminals. 6 connection terminals are fitted to Star-Delta, two speed and dual voltage machines.

The electric motors with sizes 71 to 132 inclusive and EEx e terminal boxes have 6 additional connection terminals for PTC sensors, heaters etc. The motors with EEx d terminal boxes are also equipped with 6 connection terminals. Exception is the 71 motor with only 4 connection terminals.

Each terminal box has one connection terminal for the protective conductor.

EEx d terminal boxes include a threaded entry to accept EEx d cable glands (see table below). EEx d thread reducers or adaptors can be included as an option for other thread sizes and thread forms.

Frame size	Terminals for a max. cross section of supply cable (mm ²)	Cable entries for main connection*		
		EEx e terminal box		EEx d terminal box
71	2,5	1 x M20x1,5	6,5 ~ 12	1 x M20x1,5
80 / 90 / 100	4	1 x M25x1,5	13 ~ 18	1 x M25x1,5
112	4	1 x M32x1,5	13 ~ 18	1 x M32x1,5
132	4	2 x M32x1,5	13 ~ 18	2 x M32x1,5
160 / 180	16	2 x M40x1,5	22 ~ 32	2 x M40x1,5
200 / 225	16	2 x M50x1,5	32 ~ 38	2 x M50x1,5
250 / 280 / 315	95 - 300	2 x M63x1,5	37 ~ 44	2 x M63x1,5

* Additional one cable entrie/gland M20x1,5 for PTC.

Increased safety terminal boxes include EEx e cable glands in accordance with EN 60079-0, and EN 60079-7.

The empty entries are fitted with suitably certified stopping plugs. Additional entries can only be made in our factory under strict quality procedures.

The EEx d terminal may receive additional threaded holes (NPT, ISO 7/1) by means of adapters.

One threaded hole M20x1,5 is provided on the EEx d terminal boxes for the thermal protection and for heaters. EEx e terminal boxes have an additional cable gland M20x1,5 for cable diameters of 6 to 12mm.

Degrees of IP protection and coating

IP protection:

IP protection of electric motors corresponds to IP 55. Motors with a higher degree of IP protection are manufactured on special request.

Coating:

Surface protection against aggressive environmental influences.

	Anti-corrosion protection 2 (std)	Anti-corrosion protection 3 (special)	Special surface protection
Surface	Sanding and degreasing	Sanding and degreasing	
Undercoating	Alkyd	Epoxy	
Coating	-	Epoxy	
Finishing	Alkyd (2x)	Epoxy	
Total thickness	80 µm	140 µm	
Colour*	Ral 5010 (blue)	Ral 5010 (blue)	
Protection against corrosion in environments with water	- High humidity - Steam - Sea water	- High humidity - Steam - Sea water	
Environmental resistance	periodic spilling or spraying of anorganic acids and ives	periodic spilling or spraying of anorganic acids and ives	
Temperature resistance	- 40°C ~ + 130°C	- 40°C ~ + 130°C	
Suitable for	Normal industrial atmospheres, relatively high humidity and high content of salt and aggressive gases (SO ₂ , NO _x)	Chemical aggressive atmospheres, high content of salt and aggressive gases (SO ₂ , NO _x). Condensation of moisture and electrolytes on surface. Solvents and oil derivates have negative effects.	Product with surface protection against chemical influences and tropical conditions are available on special request.

* Different colour for mining industry. 500V motors Ral 1003 (yellow), 1.000V motors Ral 9003 (grey)

Explosion protection and certifications

Explosion protection:

- Explosion protection markings are
- frame size 71 to 160 : II 2G EEx d IIC T4 or II 2G EEx de IIC T4
 - : II 2D IP 6X T 135 °C
 - frame size 180 to 315 : II 2G EEx d IIC T4 or II 2G EEx de IIC T4

Certifications:

DMD/4KTC-type motors are PTB-certified (Physikalisch-technische Bundesanstalt), Germany:

- PTB 99 ATEX 1155 : Frame sizes DMD 71 to 225
- PTB 03 ATEX 1127 : Frame size 4KTC 250
- PTB 03 ATEX 1141 : Frame size 4KTC 280
- PTB 03 ATEX 1126 : Frame size 4KTC 315

Electric system

Power, voltage and frequency:

The power ratings given in the tables are valid for operation under uniform, continuous load (S-1 according to IEC 60034-1, EN 60034-1) at a rated voltage, a frequency of 50 Hz, temperatures of up to +40 °C and an altitude of less than 1,000 m above sea level. The data in the tables refer to 400V, but motors have been designed for 380V and 415V.

Voltage or frequency variations of +/- 5% are allowed; within these limits the power ratings remain unchanged and the maximum winding temperature is not exceeded.

Versions using 110V to 1000V and frequencies of 50Hz or 60Hz are available on special request. 50Hz, 380V, 400V, 415V electric motors may also be connected to 60Hz, 440V - 480V. Then the maximum load can be increased by 15% and the number of revolutions by approximately 20 %.

If a 50Hz, 380V, 400V, 415V electric motor is connected to a 60Hz line, its maximum load may not exceed the nominal power. The number of revolutions increases by 20%, while the starting and maximum torque decreases by approximately 18%.

Overload, efficiency and power factor:

Electric motors heated to the operating temperature limit resist to a 2-minute overload of 1.5 In without being damaged. Variations between the 5/4 and 3/4 of the rated load have no essential influence on efficiency and power factor.

Windings

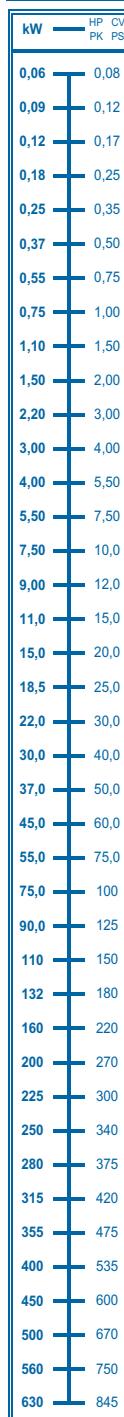
Materials of thermal class F are used for the production of stator windings. They are designed to withstand an overtemperature of 80 K at a maximum ambient temperature of 40 °C. Electric motors operating under heavy conditions, conditions requiring frequent start-ups or ambient temperatures above 40 °C employ special insulation (thermal class H) and are available on special request. Windings of electric motors rated up to 3 kW are connected via star, while those of high-rated motors employ delta connection. Two-speed motors with 2:1 speed ratio use Dahlander windings. Electric motors with a pole relation of 4/6 or 8/6 have two separate stator windings in star connection.

Installation instructions:

Installation instructions for the mains connection and start-up of motors with EEx d terminal box.

Connect the motors via suitable cable and line entries that correspond to the EN 5018-1977 directives, paragraphs 12.1 and 12.2 and have a separate test certificate. Unused openings must be closed as prescribed by EN 50018-1977, paragraph 12.5. Cable and line entries (heavy-gauge conduit threads) and sealing plugs that do not meet these requirements must not be used.

Types of Construction

 kW HP CV PK PS	Types of construction	EN60034-1 code I	1992 code II	Available standard types	Types of construction	EN60034-1 code I	1992 code II	Available standard types												
0,06		IM B3	IM 1001	DMD 71 - 225 4KTC 250 - 315		IM V5	IM 1011	DMD 71 - 225 4KTC 250 - 280*												
0,09		IM B6	IM 1051	DMD 71 - 225 4KTC 250 - 280*		IM V18	IM 3611	DMD 71 - 160												
0,12		IM B7	IM 1061	DMD 71 - 225 4KTC 250 - 280*		IM V15	IM 2011	DMD 71 - 225 4KTC 250 - 280*												
0,18		IM B8	IM 1071	DMD 71 - 225 4KTC 250 - 280*		IM V15	IM 2111	DMD 71 - 160												
0,25		IM B5	IM 3001	DMD 71 - 225 4KTC 250 - 315		IM V6	IM 1031	DMD 71 - 225 4KTC 250 - 280*												
0,37		IM B14	IM 3601	DMD 71 - 160		IM V3	IM 3031	DMD 71 - 225 4KTC 250 - 280*												
0,55		IM B35	IM 2001	DMD 71 - 225 4KTC 250 - 315		IM V19	IM 3631	DMD 71 - 160												
0,75		IM B34	IM 2101	DMD 71 - 160		IM V36	IM 2031	DMD 71 - 225 4KTC 250 - 280*												
1,10		IM V1	IM 3011	DMD 71 - 225 4KTC 250 - 315		IM V36	IM 2131	DMD 71 - 160												
* For Direct Coupling; Für Direkte Kupplung; Seulement pour accouplement direct; Para acoplamiento directo																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Starting torque and nominal torque</th> <th style="text-align: center;">Anlaufmoment und Nennmoment</th> <th style="text-align: center;">Moment démarrage et moment nominal</th> <th style="text-align: center;">Par de arranque y par nominal</th> </tr> </thead> <tbody> <tr> <td>M_S: The starting torque is the mechanical Torque developed by the motor with the rotor blocked.</td> <td>M_A: Das Anlaufmoment ist das mechanische Drehmoment, welche bei stehendem läufer gegeben ist.</td> <td>M_S: Couple de démarrage et couple nominal d'developpés par le moteur avec le rotor bloqué.</td> <td>M_S: El par de arranque es el par mecánico que desarrolla el motor estando el rotor bloqueado o parado.</td> </tr> <tr> <td>M_N: The nominal torque, is the mechanical torque that the motor is developing when it is giving its nominal power and speed.</td> <td>M_N: Das Nennmoment ist das mechanische Drehmoment, welches der Motor bei abgabe Seiner Nennleistung erbringt.</td> <td>M_N: Le moment nominal est le moment mécanique que le moteur développe à puissance nominal.</td> <td>M_N: El par nominal es el par mecánico que está motor desarrollando el motor cuando está dando su potencia nominal.</td> </tr> </tbody> </table>									Starting torque and nominal torque	Anlaufmoment und Nennmoment	Moment démarrage et moment nominal	Par de arranque y par nominal	M_S : The starting torque is the mechanical Torque developed by the motor with the rotor blocked.	M_A : Das Anlaufmoment ist das mechanische Drehmoment, welche bei stehendem läufer gegeben ist.	M_S : Couple de démarrage et couple nominal d'developpés par le moteur avec le rotor bloqué.	M_S : El par de arranque es el par mecánico que desarrolla el motor estando el rotor bloqueado o parado.	M_N : The nominal torque, is the mechanical torque that the motor is developing when it is giving its nominal power and speed.	M_N : Das Nennmoment ist das mechanische Drehmoment, welches der Motor bei abgabe Seiner Nennleistung erbringt.	M_N : Le moment nominal est le moment mécanique que le moteur développe à puissance nominal.	M_N : El par nominal es el par mecánico que está motor desarrollando el motor cuando está dando su potencia nominal.
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M_S : The starting torque is the mechanical Torque developed by the motor with the rotor blocked.	M_A : Das Anlaufmoment ist das mechanische Drehmoment, welche bei stehendem läufer gegeben ist.	M_S : Couple de démarrage et couple nominal d'developpés par le moteur avec le rotor bloqué.	M_S : El par de arranque es el par mecánico que desarrolla el motor estando el rotor bloqueado o parado.																	
M_N : The nominal torque, is the mechanical torque that the motor is developing when it is giving its nominal power and speed.	M_N : Das Nennmoment ist das mechanische Drehmoment, welches der Motor bei abgabe Seiner Nennleistung erbringt.	M_N : Le moment nominal est le moment mécanique que le moteur développe à puissance nominal.	M_N : El par nominal es el par mecánico que está motor desarrollando el motor cuando está dando su potencia nominal.																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Starting current and nominal current</th> <th style="text-align: center;">Anlaufstromstärke und Nennstromstärke</th> <th style="text-align: center;">Courant démarrage et courant nominal</th> <th style="text-align: center;">Intensidad de arranque e intensidad nominal</th> </tr> </thead> <tbody> <tr> <td>I_S: The starting current is the current that the motor is developing when the rotor is blocked.</td> <td>I_A: Die anlaufstromstärke ist der strom den der Motor bei stehendem läufer aufnimmt.</td> <td>I_S: Le courant démarrage est l'ampérage que le moteur consome avec le rotor bloqué.</td> <td>I_S: la intensidad de arranque es la que consume el motor a rotor parado.</td> </tr> <tr> <td>I_N: The nominal current is the current that the motor is developing at nominal power and nominal voltage.</td> <td>I_N: Die Nennstromstärke ist der Strom, den der Motor bei erreichen seiner Nennleistung bei Nennspannung aufnimmt.</td> <td>I_N: Le courant nominal est l'ampérage que le moteur consome à puissance nominal à tension nominal.</td> <td>I_N: Intensidad nominal es la que absorbe el motor cuando está desarrollando su potencia nominal conectada a la tensión</td> </tr> </tbody> </table>									Starting current and nominal current	Anlaufstromstärke und Nennstromstärke	Courant démarrage et courant nominal	Intensidad de arranque e intensidad nominal	I_S : The starting current is the current that the motor is developing when the rotor is blocked.	I_A : Die anlaufstromstärke ist der strom den der Motor bei stehendem läufer aufnimmt.	I_S : Le courant démarrage est l'ampérage que le moteur consome avec le rotor bloqué.	I_S : la intensidad de arranque es la que consume el motor a rotor parado.	I_N : The nominal current is the current that the motor is developing at nominal power and nominal voltage.	I_N : Die Nennstromstärke ist der Strom, den der Motor bei erreichen seiner Nennleistung bei Nennspannung aufnimmt.	I_N : Le courant nominal est l'ampérage que le moteur consome à puissance nominal à tension nominal.	I_N : Intensidad nominal es la que absorbe el motor cuando está desarrollando su potencia nominal conectada a la tensión
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DMD - EExd(e) IIC T4 : 2 - Pole; Polig; Pôle; Polos - 3000 min⁻¹



All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		rated output power	Rated current at		full-load speed rpm	full-load power factor	Full-load efficiency		Full-load torque	Starting current I_u/I_n	Starting torque M_u/M_n	Pull-out torque M_u/M_n	Sound pressure level	Moment of inertia $J = l^2/GD^2$	Weight foot mounted	
DMD = cast iron EExd(e) IIC T4 motor		Nenn- Leistung	Nennstrom bei		Nenn- drehzahl min ⁻¹	Leistungs- faktor	Wirkungsgrad		Drehkraft	Anlaufstrom	Anlauf- moment M_u/M_n	Kipp-zu Nennmoment M_u/M_n	Schall- druckpegel	Trägheits- moment $J = l^2/GD^2$	Gewicht Fübaus- führung	
230/400V - 50Hz 400/690V - 50Hz		Puissance Nominal	Courant nominale à		Vitesse nominal U/min	Facteur de puissance	Rendement		Couple	Courant de démarrage I_u/I_n	Couple de démarrage C_u/C_n	Couple maximum C_u/C_n	Niveau de pression acoustique	Moment d'inertie $J = l^2/GD^2$	Masse (moteur à pattes)	
Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa		Potencia Nominal	Intensidad nominal à		Velocidad nominal r/min	Factor de potencia	Rendimiento		Esfuerzo de torsión	Intensidad de arranque I_u/I_n	Par de arranque T_u/T_n	Par maximal sana	Nivel de presión sana	Momento de inercia $J = l^2/GD^2$	Peso (motor con patas)	
EN60034 (IEC-DIN)		P _N kW	380V	400V	420V	n _N min ⁻¹	cos φ	100% η %	75% η %	M _N				dB(A) (EN60034-6)	kgm ²	kg
DMD 71 A 2	0,37	1,03	0,98	0,93	2.820	0,81	67,2	65,5	1,26	5,4	3,0	3,2	75,0	0,00034	15,0	
DMD 71 B 2	0,55	1,34	1,28	1,22	2.800	0,86	72,7	71,0	1,88	5,4	2,8	3,1	75,0	0,00042	16,0	
DMD 80 A 2	0,75	1,69	1,61	1,53	2.810	0,87	77,5	75,0	2,55	4,9	2,6	2,8	75,0	0,00063	24,0	
DMD 80 B 2	1,10	2,40	2,29	2,18	2.775	0,88	78,8	77,0	3,79	5,1	2,8	2,9	75,0	0,00079	26,0	
DMD 90 S 2	1,50	3,22	3,07	2,92	2.855	0,86	81,6	79,5	5,02	6,0	2,8	3,1	80,0	0,00124	32,0	
DMD 90 L 2	2,20	4,62	4,40	4,19	2.845	0,89	80,8	80,0	7,39	5,9	2,7	2,7	80,0	0,00155	34,0	
DMD 100 L 2	3,00	6,72	6,40	6,10	2.875	0,85	79,5	79,0	10,0	5,7	3,0	3,3	83,0	0,00251	42,5	
DMD 100 La -																
DMD 100 Lb -																
DMD 112 M 2	4,00	8,19	7,80	7,43	2.880	0,88	84,0	83,0	13,3	6,9	2,7	3,1	83,0	0,00451	58,0	
DMD 132 S -																
DMD 132 Sa 2	5,50	10,9	10,4	9,9	2.910	0,88	87,0	84,5	18,1	6,3	2,6	3,0	83,0	0,00967	77,0	
DMD 132 Sb 2	7,50	14,8	14,1	13,4	2.920	0,88	87,7	85,5	24,5	6,9	3,0	3,3	87,0	0,01225	84,0	
DMD 132 M -																
DMD 132 Ma -																
DMD 132 Mb -																
DMD 160 M -																
DMD 160 Ma 2	11,0	21,6	20,6	19,6	2.940	0,86	89,4	88,0	35,7	7,9	3,8	3,3	87,0	0,02943	148	
DMD 160 Mb 2	15,0	27,8	26,5	25,2	2.940	0,90	90,6	90,0	48,7	7,9	3,4	3,0	91,0	0,03912	166	
DMD 160 L 2	18,5	33,8	32,2	30,7	2.945	0,91	91,6	90,5	60,0	7,4	3,1	3,1	91,0	0,04590	178	
DMD 180 M 2	22,0	43,4	41,3	39,3	2.940	0,91	84,2	84,0	71,5	6,9	2,8	2,9	91,0	0,06151	205	
DMD 180 L -																
DMD 200 L -																
DMD 200 La 2	30,0	57,1	54,4	51,8	2.955	0,90	88,5	88,0	97,0	6,9	2,4	2,6	92,0	0,10442	240	
DMD 200 Lb 2	37,0	69,8	66,5	63,3	2.970	0,91	88,6	88,0	119	9,0	3,3	3,0	92,0	0,12739	250	
DMD 225 S -																
DMD 225 M 2	45,0	86,1	82,0	78,1	2.970	0,88	89,6	88,5	145	7,6	2,5	3,4	94,0	0,22155	375	
4KTC 250 M 2	55,0	103	98,0	93,3	2.970	0,91	89,3	88,7	177	6,6	2,1	2,2	94,0	0,67500	485	
4KTC 280 S 2	75,0	143	136	130	2.980	0,88	90,8	90,0	240	8,3	3,0	2,7	96,0	0,95000	650	
4KTC 280 M 2	90,0	166	158	150	2.980	0,90	91,5	91,0	288	8,1	3,0	2,6	96,0	1,10000	700	
4KTC 315 S 2	110	195	186	177	2.970	0,94	91,5	91,0	354	7,2	2,5	3,1	98,0	1,55000	820	
4KTC 315 Ma 2	132	234	223	212	2.985	0,93	92,1	92,0	422	7,5	2,8	2,8	98,0	1,80000	930	
4KTC 315 Mb 2	160	286	272	259	2.975	0,94	90,1	89,5	514	8,1	2,9	3,1	98,0	2,20000	1.240	
4KTC 315 L 2	200	362	345	329	2.980	0,90	93,0	92,0	641	6,9	2,3	2,6	98,0	2,80000	1.380	

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.

EExd(e) IIC T4
motor @ 60Hz

DMD - EExd(e) IIC T4 : 2 - Pole; Polig; Pôle; Polos - 3600 min⁻¹

All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type	Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level			
	Nennstrom bei Leistung	Nennstrom bei drehzahl min ⁻¹	Drehkraft Schalldruckpegel	Couple Niveau de pression acoustique	Nennstrom bei Leistung	Nennstrom bei drehzahl min ⁻¹	Drehkraft Schalldruckpegel	Couple Niveau de pression acoustique	Nennstrom bei Leistung	Nennstrom bei drehzahl min ⁻¹	Drehkraft Schalldruckpegel	Couple Niveau de pression acoustique			
DMD = cast iron EExd(e) IIC T4 motor															
440V - 60Hz															
460V - 60Hz															
480V - 60Hz															
Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa															
EN60034 (IEC-DIN)															
	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)										
	440V - 60Hz					460V - 60Hz						480V - 60Hz			
	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)
DMD 71 A 2	0,43	1,03	3.380	1,22	77,0	0,50	1,02	3.380	1,42	77,0	0,50	0,98	3.380	1,42	77,0
DMD 71 B 2	0,64	1,34	3.360	1,82	77,0	0,70	1,34	3.360	1,99	77,0	0,70	1,28	3.360	1,99	77,0
DMD 80 A 2	0,87	1,69	3.370	2,47	77,0	0,90	1,68	3.370	2,56	77,0	0,90	1,61	3.370	2,56	77,0
DMD 80 B 2	1,27	2,40	3.330	3,65	77,0	1,40	2,39	3.330	4,02	77,0	1,40	2,29	3.330	4,02	77,0
DMD 90 S 2	1,73	3,22	3.430	4,82	82,0	1,80	3,20	3.430	5,02	82,0	1,80	3,07	3.430	5,02	82,0
DMD 90 L 2	2,53	4,62	3.410	7,09	82,0	2,70	4,59	3.410	7,57	82,0	2,70	4,40	3.410	7,57	82,0
DMD 100 L 2	3,45	6,72	3.450	9,55	85,0	3,60	6,68	3.450	10,0	85,0	3,60	6,40	3.450	10,0	85,0
DMD 100 La -															
DMD 100 Lb -															
DMD 112 M 2	4,60	8,19	3.460	12,7	85,0	4,80	8,14	3.460	13,3	85,0	4,80	7,80	3.460	13,3	85,0
DMD 132 S -															
DMD 132 Sa 2	6,33	10,9	3.490	17,3	85,0	6,60	10,8	3.490	18,1	85,0	6,60	10,4	3.490	18,1	85,0
DMD 132 Sb 2	8,63	14,8	3.500	23,6	89,0	9,00	14,7	3.500	24,6	89,0	9,00	14,1	3.500	24,6	89,0
DMD 132 M -															
DMD 132 Ma -															
DMD 132 Mb -															
DMD 160 M -															
DMD 160 Ma 2	12,7	21,6	3.530	34,2	89,0	13,2	21,5	3.530	35,7	89,0	13,2	20,6	3.530	35,7	89,0
DMD 160 Mb 2	17,3	27,8	3.530	46,7	93,0	18,0	27,6	3.530	48,7	93,0	18,0	26,5	3.530	48,7	93,0
DMD 160 L 2	21,3	33,8	3.530	57,6	93,0	22,2	33,6	3.530	60,1	93,0	22,2	32,2	3.530	60,1	93,0
DMD 180 M 2	25,3	43,4	3.530	68,5	93,0	26,4	43,1	3.530	71,4	93,0	26,4	41,3	3.530	71,4	93,0
DMD 180 L -															
DMD 200 L -															
DMD 200 La 2	34,5	57,1	3.550	92,8	94,0	36,0	56,7	3.550	96,9	94,0	36,0	54,4	3.550	96,9	94,0
DMD 200 Lb 2	42,6	69,8	3.560	114	94,0	44,4	69,4	3.560	119	94,0	44,4	66,5	3.560	119	94,0
DMD 225 S -															
DMD 225 M 2	51,8	86,1	3.560	139	96,0	54,0	85,5	3.560	145	96,0	54,0	82,0	3.560	145	96,0
4KTC 250 M 2	63,3	103	3.560	170	96,0	66,0	102	3.560	177	96,0	66,0	98,0	3.560	177	96,0
4KTC 280 S 2	86,3	143	3.580	230	98,0	90,0	142	3.580	240	98,0	90,0	136	3.580	240	98,0
4KTC 280 M 2	104	166	3.580	276	98,0	108	165	3.580	288	98,0	108	158	3.580	288	98,0
4KTC 315 S 2	127	195	3.560	339	100,0	132	194	3.560	354	100,0	132	186	3.560	354	100,0
4KTC 315 Ma 2	152	234	3.580	405	100,0	158	233	3.580	423	100,0	158	223	3.580	423	100,0
4KTC 315 Mb 2	184	286	3.570	492	100,0	192	284	3.570	514	100,0	192	272	3.570	514	100,0
4KTC 315 L 2	230	362	3.580	614	100,0	240	360	3.580	640	100,0	240	345	3.580	640	100,0

All technical details are based on 480V/60Hz; Alle Angaben auf Basis von 480V/60Hz; Tous les détails techniques selon 480V/60Hz; Todos los datos técnicos según 480V/60Hz.

DMD - EExd(e) IIC T4 : 4 - Pole; Polig; Pôle; Polos - 1500 min⁻¹



All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		rated output power		Rated current at		full-load speed rpm	full-load power factor	Full-load efficiency		Full-load torque $\text{U}_{\text{f}}/\text{U}_0$	Starting current $\text{I}_{\text{s}}/\text{I}_0$	Starting torque $\text{M}_{\text{s}}/\text{M}_0$	Pull-out torque $\text{M}_{\text{p}}/\text{M}_0$	Sound pressure level dB(A)	Moment of inertia $J = l^2/GD^2$ (EN60034-6)	Weight foot mounted kgm ²	
DMD = cast iron EExd(e) IIC T4 motor		Nenn- Leistung	Nennstrom bei		Nenn- drehzahl min ⁻¹	Leistungs- faktor	Wirkungsgrad		Drehkraft	Anlaufstrom $\text{U}_{\text{f}}/\text{U}_0$	Anlauf- moment $\text{M}_{\text{f}}/\text{M}_0$	Kipp-zu- Nennmoment $\text{M}_{\text{p}}/\text{M}_0$	Schall- druckpegel	Trägheits- moment $J = l^2/GD^2$	Gewicht Fübaus- führung		
230/400V - 50Hz 400/690V - 50Hz		Puissance Nominal	Courant nominale à		Vitesse nominal U/min	Facteur de puissance	Rendement		Couple	Courant de démarrage $\text{U}_{\text{f}}/\text{U}_0$	Couple de démarrage $\text{C}_{\text{f}}/\text{C}_0$	Couple maximum $\text{C}_{\text{m}}/\text{C}_0$	Niveau de pression acoustique	Moment d'inertie $J = l^2/GD^2$	Masse (moteur à pattes)		
Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa		Potencia Nominal	Intensidad nominal à		Velocidad nominal r/min	Factor de potencia	Rendimiento		Esfuerzo de torsión $\text{U}_{\text{f}}/\text{U}_0$	Intensidad de arranque $\text{T}_{\text{f}}/\text{T}_0$	Par de arranque $\text{T}_{\text{f}}/\text{T}_0$	Par maximal $\text{T}_{\text{max}}/\text{T}_0$	Nivel de presión sana	Momento de inercia $J = l^2/GD^2$	Peso (motor con patas)		
EN60034 (IEC-DIN)		P _N kW	380V	400V	420V	n _N min ⁻¹	cos φ	100%	75%	M _N					dB(A) (EN60034-6)	kgm ²	kg
DMD 71 A 4	0,25	0,72	0,69	0,66	1.370	0,78	67,0	66,1	1,75	3,4	2,2	2,2	71,0	0,00051	15,0		
DMD 71 B 4	0,37	1,00	0,95	0,90	1.385	0,78	72,5	71,5	2,56	4,0	2,2	2,3	71,0	0,00063	16,0		
DMD 80 A 4	0,55	1,41	1,34	1,28	1.400	0,77	76,9	75,9	3,76	4,4	2,3	2,4	71,0	0,00098	24,0		
DMD 80 B 4	0,75	1,79	1,70	1,62	1.410	0,70	81,4	80,3	5,08	5,0	2,6	2,7	71,0	0,00125	26,0		
DMD 90 S 4	1,10	2,52	2,40	2,29	1.410	0,82	80,9	79,8	7,46	4,8	2,2	2,5	71,0	0,00204	32,0		
DMD 90 L 4	1,50	3,52	3,35	3,19	1.415	0,80	80,6	79,5	10,1	5,2	2,5	2,8	73,0	0,00260	35,0		
DMD 100 L 4																	
DMD 100 La 4	2,20	4,94	4,70	4,48	1.410	0,82	81,5	80,4	14,9	4,6	2,0	2,5	73,0	0,00388	42,5		
DMD 100 Lb 4	3,00	6,83	6,50	6,19	1.415	0,83	79,6	78,5	20,3	5,0	2,1	2,6	77,0	0,00499	46,0		
DMD 112 M 4	4,00	8,72	8,30	7,90	1.435	0,81	85,4	84,3	26,6	6,1	2,8	3,1	77,0	0,01014	60,0		
DMD 132 S 4	5,50	11,3	10,8	10,3	1.435	0,85	86,0	84,9	36,6	5,1	2,2	2,4	77,0	0,02113	84,0		
DMD 132 Sa 4																	
DMD 132 Sb 4																	
DMD 132 M 4	7,50	15,2	14,5	13,8	1.445	0,84	88,9	87,7	49,6	6,0	2,5	2,8	81,0	0,02793	93,5		
DMD 132 Ma 4																	
DMD 132 Mb 4																	
DMD 160 M 4	11,0	23,1	22,0	21,0	1.460	0,83	87,1	85,9	72,0	6,9	2,9	3,1	81,0	0,05417	159,0		
DMD 160 Ma 4																	
DMD 160 Mb 4																	
DMD 160 L 4	15,0	30,5	29,0	27,6	1.465	0,83	90,8	89,6	97,8	7,4	3,1	3,0	85,0	0,07116	178		
DMD 180 M 4	18,5	36,8	35,0	33,3	1.465	0,86	89,9	88,7	121	6,9	3,1	2,5	85,0	0,11290	215		
DMD 180 L 4	22,0	42,5	40,5	38,6	1.470	0,86	90,9	89,7	143	7,1	3,1	2,6	85,0	0,13390	236		
DMD 200 L 4	30,0	56,1	53,4	50,9	1.470	0,91	89,6	88,4	195	6,8	2,7	2,8	86,0	0,21298	250		
DMD 200 La 4																	
DMD 200 Lb 4																	
DMD 225 S 4	37,0	69,9	66,6	63,4	1.475	0,87	92,2	91,0	240	7,0	2,9	2,4	86,0	0,36225	310		
DMD 225 M 4	45,0	84,5	80,5	76,7	1.475	0,87	92,5	91,3	291	7,3	3,3	2,7	88,0	0,42845	390		
4KTC 250 M 4	55,0	103	98,0	93,3	1.480	0,89	92,5	91,3	355	7,7	3,4	2,7	88,0	0,87500	480		
4KTC 280 S 4	75,0	145	138	131	1.485	0,84	92,2	91,0	482	7,6	3,0	2,4	92,0	1,87500	610		
4KTC 280 M 4	90,0	174	166	158	1.490	0,84	93,5	92,3	577	7,8	2,8	2,6	92,0	2,25000	685		
4KTC 315 S 4	110	217	207	197	1.485	0,84	90,7	89,5	707	6,3	2,6	2,5	92,0	3,50000	820		
4KTC 315 Ma 4	132	247	235	224	1.485	0,88	92,2	91,0	849	6,9	3,0	2,5	94,0	3,87500	930		
4KTC 315 Mb 4	133	313	298	284	1.490	0,84	92,5	91,3	852	5,8	1,9	2,1	94,0	5,00000	1.240		
4KTC 315 L 4	134	369	352	335	1.485	0,88	93,0	91,8	862	6,8	1,5	1,6	94,0	6,10000	1.380		

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.

EExd(e) IIC T4
motor @ 60Hz

DMD - EExd(e) IIC T4 : 4 - Pole; Polig; Pôle; Polos - 1800 min⁻¹

All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		Rated output power	Rated current at full-load	Full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load	Full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load	Full-load speed rpm	Full-load torque	Sound pressure level	
DMD = cast iron		Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft	Schalldruckpegel	Niveau de pression acoustique	Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft	Schalldruckpegel	Niveau de pression acoustique	Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft	Schalldruckpegel		
EExd(e) IIC T4 motor		Puissance Nominal	Courant nominale à Vitesse nominal t/min	Couple	Niveau de pression acoustique	Puissance Nominal	Courant nominale à Vitesse nominal t/min	Couple	Niveau de pression acoustique	Puissance Nominal	Courant nominale à Vitesse nominal t/min	Couple	Niveau de pression acoustique	Puissance Nominal	Courant nominale à Vitesse nominal t/min	Couple	Niveau de pression acoustique
440V - 60Hz		Potencia Nominal	Intensidad nominal a Velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana	Potencia Nominal	Intensidad nominal a Velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana	Potencia Nominal	Intensidad nominal a Velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana	Potencia Nominal	Intensidad nominal a Velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana
460V - 60Hz		P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	
480V - 60Hz																	
Frame size / Baugröße																	
Hauteur d'axe / Tamaño de carcasa																	
EN60034 (IEC-DIN)																	
DMD 71 A 4	0,29	0,	1 640	1,69	3,0	0,30	0,	1 640	1, 5	3,0	0,30	0,69	1 640	1, 5	3,0		
DMD 71 B 4	0,43	1,00	1 660	,48	3,0	0,50	0,99	1 660	,88	3,0	0,50	0,95	1 660	,88	3,0		
DMD 80 A 4	0,64	1,41	1 680	3,64	3,0	0,70	1,40	1 680	3,98	3,0	0,70	1,34	1 680	3,98	3,0		
DMD 80 B 4	0,87	1, 9	1 690	4,9	3,0	0,90	1,	1 690	5,09	3,0	0,90	1, 0	1 690	5,09	3,0		
DMD 90 S 4	1,27	,5	1 690	,18	3,0	1,40	,50	1 690	,9	3,0	1,40	,40	1 690	,9	3,0		
DMD 90 L 4	1,73	3,5	1 00	9,	5,0	1,80	3,49	1 00	10,1	5,0	1,80	3,35	1 00	10,1	5,0		
DMD 100 L 4																	
DMD 100 La 4	2,53	4,94	1 690	14,3	5,0	2,70	4,90	1 690	15,3	5,0	2,70	4, 0	1 690	15,3	5,0		
DMD 100 Lb 4	3,45	6,83	1 00	19,4	9,0	3,60	6, 8	1 00	0,	9,0	3,60	6,50	1 00	0,	9,0		
DMD 112 M 4	4,60	8,	1 0	5,6	9,0	4,80	8,66	1 0	6,	9,0	4,80	8,30	1 0	6,	9,0		
DMD 132 S 4	6,33	11,3	1 0	35,	9,0	6,60	11,3	1 0	36,	9,0	6,60	10,8	1 0	36,	9,0		
DMD 132 Sa 4																	
DMD 132 Sb 4																	
DMD 132 M 4	8,63	15,	1 30	4 ,6	83,0	9,00	15,1	1 30	49,	83,0	9,00	14,5	1 30	49,	83,0		
DMD 132 Ma 4																	
DMD 132 Mb 4																	
DMD 160 M 4	12,7	3,1	1 50	69,0	83,0	13,2	,9	1 50	,0	83,0	13,2	,0	1 50	,0	83,0		
DMD 160 Ma 4																	
DMD 160 Mb 4																	
DMD 160 L 4	17,3	30,5	1 60	93,6	8 ,0	18,0	30,	1 60	9 ,	8 ,0	18,0	9,0	1 60	9 ,	8 ,0		
DMD 180 M 4	21,3	36,8	1 60	115	8 ,0	22,2	36,5	1 60	1 0	8 ,0	22,2	35,0	1 60	1 0	8 ,0		
DMD 180 L 4	25,3	4 ,5	1 60	13	8 ,0	26,4	4 ,	1 60	143	8 ,0	26,4	40,5	1 60	143	8 ,0		
DMD 200 L 4	34,5	56,1	1 60	18	88,0	36,0	55,	1 60	195	88,0	36,0	53,4	1 60	195	88,0		
DMD 200 La 4																	
DMD 200 Lb 4																	
DMD 225 S 4	42,6	69,9	1 0	30	88,0	44,4	69,5	1 0	40	88,0	44,4	66,6	1 0	40	88,0		
DMD 225 M 4	51,8	84,5	1 0	9	90,0	54,0	84,0	1 0	91	90,0	54,0	80,5	1 0	91	90,0		
4KTC 250 M 4	63,3	103	1 80	339	90,0	66,0	10	1 80	354	90,0	66,0	98,0	1 80	354	90,0		
4KTC 280 S 4	86,3	145	1 80	463	94,0	90,0	144	1 80	483	94,0	90,0	138	1 80	483	94,0		
4KTC 280 M 4	104	1 4	1 90	55	94,0	108	1 3	1 90	5 6	94,0	108	166	1 90	5 6	94,0		
4KTC 315 S 4	127	1	1 80	6 9	94,0	132	16	1 80	08	94,0	132	0	1 80	08	94,0		
4KTC 315 Ma 4	152	4	1 80	814	96,0	158	45	1 80	850	96,0	158	35	1 80	850	96,0		
4KTC 315 Mb 4	153	313	1 90	816	96,0	160	311	1 90	85	96,0	160	98	1 90	85	96,0		
4KTC 315 L 4	154	369	1 80	8	96,0	161	36	1 80	863	96,0	161	35	1 80	863	96,0		

All technical details are based on 480V/60Hz; Alle Angaben auf Basis von 480V/60Hz; Tous les détails techniques selon 480V/60Hz; Todos los datos técnicos según 480V/60Hz

DMD - EExd(e) IIC T4 : 6 - Pole; Polig; Pôle; Polos - 1000 min⁻¹



All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		rated output power	Rated current at		full-load speed rpm	full-load power factor	Full-load efficiency		Full-load torque	Starting current I_u/I_n	Starting torque M_u/M_n	Pull-out torque M_u/M_n	Sound pressure level	Moment of inertia $J = I_d/GD^2$	Weight foot mounted	
DMD = cast iron EExd(e) IIC T4 motor		Nenn- Leistung	Nennstrom bei		Nenn- drehzahl min ⁻¹	Leistungs- faktor	Wirkungsgrad		Drehkraft	Anlaufstrom	Anlauf- moment M_u/M_n	Kipp-zu- Nennmoment M_u/M_n	Schall- druckpegel	Trägheits- moment $J = I_d/GD^2$	Gewicht- Fübaus- führung	
230/400V - 50Hz 400/690V - 50Hz		Puissance Nominal	Courant nominale à		Vitesse nominal U/min	Facteur de puissance	Rendement		Couple	Courant de démarrage I_u/I_n	Couple de démarrage C_u/C_n	Couple maximum C_u/C_n	Niveau de pression acoustique	Moment d'inertie $J = I_d/GD^2$	Masse (moteur à pattes)	
Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa		Potencia Nominal	Intensidad nominal à		Velocidad nominal r/min	Factor de potencia	Rendimiento		Esfuerzo de torsión	Intensidad de arranque I_u/I_n	Par de arranque T_u/T_n	Par maximal sana	Nivel de presión sana	Momento de inercia $J = I_d/GD^2$	Peso (motor con patas)	
EN60034 (IEC-DIN)		P _N kW	380V	400V	420V	n _N min ⁻¹	cos φ	100% η %	75% η %	M _N				dB(A) (EN60034-6)	kgm ²	kg
DMD 71 A 6	0,18	0,70	0,67	0,64	930	0,65	60,0	60,0	1,85	3,1	2,1	2,3	70,0	0,00081	15,0	
DMD 71 B 6	0,25	0,89	0,85	0,81	940	0,67	64,0	64,0	2,54	3,7	2,2	2,5	70,0	0,00101	16,0	
DMD 80 A 6	0,37	1,16	1,10	1,05	925	0,72	67,0	67,0	3,82	3,6	2,3	2,5	70,0	0,00191	25,0	
DMD 80 B 6	0,55	1,58	1,50	1,43	915	0,74	72,0	72,0	5,75	4,1	2,4	2,5	70,0	0,00239	26,5	
DMD 90 S 6	0,75	2,21	2,10	2,00	915	0,74	70,0	70,0	7,83	3,7	1,8	2,1	70,0	0,00323	32,0	
DMD 90 L 6	1,10	3,15	3,00	2,86	915	0,73	73,0	73,0	11,5	4,1	2,1	2,3	70,0	0,00419	35,0	
DMD 100 L 6	1,50	3,89	3,70	3,52	930	0,77	76,0	76,0	15,4	4,7	2,2	2,3	70,0	0,00657	46,0	
DMD 100 La 6																
DMD 100 Lb 6																
DMD 112 M 6	2,20	5,25	5,00	4,76	960	0,78	82,0	82,0	21,9	6,1	2,6	2,7	70,0	0,01580	60,0	
DMD 132 S 6	3,00	6,93	6,60	6,29	975	0,79	83,5	83,5	29,4	6,3	2,3	2,5	74,0	0,02722	84,0	
DMD 132 Sa 6																
DMD 132 Sb 6																
DMD 132 M 6																
DMD 132 Ma 6	4,00	9,24	8,80	8,38	960	0,80	83,0	83,0	39,8	6,3	2,4	2,9	74,0	0,03229	88,0	
DMD 132 Mb 6	5,50	12,4	11,8	11,2	955	0,81	83,5	83,5	55,0	6,1	2,3	2,9	74,0	0,03838	95,0	
DMD 160 M 6	7,50	16,6	15,8	15,0	970	0,80	86,0	86,0	73,9	6,7	2,7	2,4	78,0	0,08121	161	
DMD 160 Ma 6																
DMD 160 Mb 6																
DMD 160 L 6	11,0	24,7	23,5	22,4	965	0,77	88,5	88,5	109	6,0	2,2	2,3	78,0	0,10916	182	
DMD 180 M 6																
DMD 180 L 6	15,0	32,6	31,0	29,5	965	0,78	89,5	89,5	148	5,2	1,9	2,3	82,0	0,22700	236	
DMD 200 L 6																
DMD 200 La 6	18,5	37,8	36,0	34,3	965	0,81	91,0	91,0	183	6,0	1,9	2,4	82,0	0,24369	240	
DMD 200 Lb 6	22,0	45,2	43,0	41,0	965	0,81	91,5	91,5	218	6,0	1,9	2,4	82,0	0,27888	250	
DMD 225 S 6																
DMD 225 M 6	30,0	58,8	56,0	53,3	975	0,83	92,5	92,5	294	5,8	1,8	2,5	84,0	0,66117	390	
4KTC 250 M 6	37,0	72,5	69,0	65,7	985	0,83	93,5	93,5	359	6,0	2,8	2,6	84,0	1,12500	480	
4KTC 280 S 6	45,0	86,1	82,0	78,1	985	0,84	94,5	94,5	436	6,3	2,5	2,7	86,0	2,30000	610	
4KTC 280 M 6	55,0	106	101	96,2	985	0,84	94,5	94,5	533	6,0	2,4	2,8	86,0	2,62500	685	
4KTC 315 S 6	75,0	147	140	133	980	0,82	95,0	95,0	731	5,9	2,5	2,8	89,0	4,62500	820	
4KTC 315 Ma 6	90,0	171	163	155	985	0,84	95,5	95,0	873	5,1	2,1	2,9	89,0	5,25000	930	
4KTC 315 Mb 6	110	208	198	189	990	0,88	91,5	91,0	1,061	6,5	2,5	2,4	89,0	6,00000	1.240	
4KTC 315 L 6	132	250	238	227	990	0,88	90,5	90,0	1,273	6,8	2,6	2,4	91,0	7,30000	1.380	

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.

EExd(e) IIC T4
motor @ 60Hz

DMD - EExd(e) IIC T4 : 6 - Pole; Polig; Pôle; Polos - 1200 min⁻¹

All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type DMD = cast iron EExd(e) IIC T4 motor 440V - 60Hz 460V - 60Hz 480V - 60Hz Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa EN60034 (IEC-DIN)	Rated output power	Rated current at speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at speed rpm	Full-load torque	Sound pressure level
	Nenn-Leistung	Nennstrom bei	Drehkraft	Schalldruckpegel	Nenn-Leistung	Nennstrom bei	Drehkraft	Schalldruckpegel	Nenn-Leistung	Nennstrom bei	Drehkraft	Schalldruckpegel
	Puissance Nominal	Courant nominale à vitesse nomiale t/min	Couple	Niveau de pression acoustique	Puissance Nominal	Courant nominale à vitesse nomiale t/min	Couple	Niveau de pression acoustique	Puissance Nominal	Courant nominale à vitesse nomiale t/min	Couple	Niveau de pression acoustique
	Potencia Nominal	Intensidad nominal a velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana	Potencia Nominal	Intensidad nominal a velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana	Potencia Nominal	Intensidad nominal a velocidad nominal r/min	Esfuerzo de torsión	Nivel de presión sana
	440V - 60Hz	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-8)	460V - 60Hz	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-8)
	480V - 60Hz	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-8)	480V - 60Hz	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-8)
DMD 71 A 6	0,21	0, 0	1.1 0	1,80	,0	0,30	0, 0	1.1 0	,56	,0	0,30	0,6
DMD 71 B 6	0,29	0,89	1.130	,46	,0	0,30	0,89	1.130	,54	,0	0,30	0,85
DMD 80 A 6	0,43	1,16	1.110	3, 0	,0	0,50	1,15	1.110	4,31	,0	0,50	1,10
DMD 80 B 6	0,64	1,58	1.100	5,56	,0	0,70	1,56	1.100	6,08	,0	0,70	1,50
DMD 90 S 6	0,87	, 1	1.100	,56	,0	0,90	,19	1.100	,8	,0	0,90	,10
DMD 90 L 6	1,27	3,15	1.100	11,03	,0	1,40	3,13	1.100	1,	,0	1,40	3,00
DMD 100 L 6	1,73	3,89	1.1 0	14, 6	,0	1,80	3,86	1.1 0	15,4	,0	1,80	3, 0
DMD 100 La 6												
DMD 100 Lb 6												
DMD 112 M 6	2,53	5, 5	1.150	1,0	,0	2,70	5,	1.150	,4	,0	2,70	5,00
DMD 132 S 6	3,45	6,93	1.1 0	8,	6,0	3,60	6,88	1.1 0	9,4	6,0	3,60	6,60
DMD 132 Sa 6												
DMD 132 Sb 6												
DMD 132 M 6												
DMD 132 Ma 6	4,60	9, 4	1.150	38,	6,0	4,80	9,18	1.150	39,9	6,0	4,80	8,80
DMD 132 Mb 6	6,33	1,4	1.150	5,6	6,0	6,60	1,3	1.150	54,8	6,0	6,60	11,8
DMD 160 M 6	8,63	16,6	1.160	1,1	80,0	9,00	16,5	1.160	4,1	80,0	9,00	15,8
DMD 160 Ma 6												
DMD 160 Mb 6												
DMD 160 L 6	12,7	4,	1.160	104	80,0	13,2	4,5	1.160	109	80,0	13,2	3,5
DMD 180 M 6												
DMD 180 L 6	17,3	3,6	1.160	14	84,0	18,0	3,3	1.160	148	84,0	18,0	31,0
DMD 200 L 6												
DMD 200 La 6	21,3	3,8	1.160	1 5	84,0	22,2	3 ,5	1.160	183	84,0	22,2	36,0
DMD 200 Lb 6	25,3	45,	1.160	08	84,0	26,4	44,8	1.160	1	84,0	26,4	43,0
DMD 225 S 6												
DMD 225 M 6	34,5	58,8	1.1 0	8	86,0	36,0	58,4	1.1 0	94	86,0	36,0	56,0
4KTC 250 M 6	42,6	,5	1.180	344	86,0	44,4	,0	1.180	359	86,0	44,4	69,0
4KTC 280 S 6	51,8	86,1	1.180	419	88,0	54,0	85,5	1.180	43	88,0	54,0	8 ,0
4KTC 280 M 6	63,3	106	1.180	51	88,0	66,0	105	1.180	534	88,0	66,0	101
4KTC 315 S 6	86,3	14	1.180	698	91,0	90,0	146	1.180	8	91,0	90,0	140
4KTC 315 Ma 6	104	1 1	1.180	838	91,0	108	1 0	1.180	8 4	91,0	108	163
4KTC 315 Mb 6	127	08	1.190	1.015	91,0	132	0	1.190	1.059	91,0	132	198
4KTC 315 L 6	152	50	1.190	1. 18	93,0	158	48	1.190	1. 1	93,0	158	38

All technical details are based on 480V/60Hz; Alle Angaben auf Basis von 480V/60Hz; Tous les détails techniques selon 480V/60Hz; Todos los datos técnicos según 480V/60Hz.

DMD - EExd(e) IIC T4 : 8 - Pole; Polig; Pôle; Polos - 750 min⁻¹



All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		rated output power		Rated current at		full-load speed rpm	full-load power factor	Full-load efficiency		Full-load torque	Starting current I_u/I_n	Starting torque M_u/M_n	Pull-out torque M_u/M_n	Sound pressure level	Moment of inertia $J = l^2/GD^2$	Weight foot mounted
DMD = cast iron EExd(e) IIC T4 motor		Nenn- Leistung	Nennstrom bei		Nenn- drehzahl min ⁻¹	Leistungs- faktor	Wirkungsgrad		Drehkraft	Anlaufstrom	Anlauf- moment M_u/M_n	Kipp-zu- Nennmoment M_u/M_n	Schall- druckpegel	Trägheits- moment $J = l^2/GD^2$	Gewicht Fübaus- führung	
230/400V - 50Hz 400/690V - 50Hz		Puissance Nominal	Courant nominale à		Vitesse nominal U/min	Facteur de puissance	Rendement		Couple	Courant de démarrage I_u/I_n	Couple maximum C_u/C_n	Couple maximum C_u/C_n	Niveau de pression acoustique	Moment d'inertie $J = l^2/GD^2$	Masse (moteur à pattes)	
Frame size / Baugröße Hauteur d'axe / Tamaño de carcasa		Intensidad nominal à		Velocidad nominal r/min		Factor de potencia		Rendimiento		Esfuerzo de torsión T_u/T_n	Intensidad de arranque I_u/I_n	Par de arranque T_u/T_n	Par maximal sana	Nivel de presión sana	Momento de inercia $J = l^2/GD^2$	Peso (motor con patas)
EN60034 (IEC-DIN)		P _N kW	I _u A	I _N A	I _o A	n _N min ⁻¹	cos φ	100%	75%	M _N				dB(A) (EN60034-6)	kgm ²	kg
DMD 71 A 8	0,09	0,70	0,67	0,64	680	0,51	38,0	38,0	1,27	2,0	2,0	2,1	67,0	0,00081	15,0	
DMD 71 B 8	0,12	0,57	0,54	0,51	655	0,71	45,0	45,0	1,75	2,4	1,8	2,1	67,0	0,00101	16,0	
DMD 80 A 8	0,18	0,69	0,66	0,63	680	0,65	61,0	61,0	2,53	2,9	2,1	2,2	67,0	0,00191	25,0	
DMD 80 B 8	0,25	0,97	0,92	0,88	680	0,68	58,0	58,0	3,52	3,1	2,1	2,3	67,0	0,00239	26,5	
DMD 90 S 8	0,37	1,31	1,25	1,19	685	0,65	66,0	66,0	5,16	3,0	1,7	2,0	67,0	0,00323	32,0	
DMD 90 L 8	0,55	1,84	1,75	1,67	685	0,66	69,0	69,0	7,7	3,1	1,8	2,1	67,0	0,00419	35,0	
DMD 100 L 8																
DMD 100 La 8	0,75	2,42	2,30	2,19	690	0,69	69,0	69,0	10,4	3,5	1,8	2,1	67,0	0,00657	42,5	
DMD 100 Lb 8	1,10	3,41	3,25	3,10	695	0,70	70,0	70,0	15,1	3,8	1,9	2,2	67,0	0,00857	46,0	
DMD 112 M 8	1,50	4,36	4,15	3,95	710	0,67	78,0	78,0	20,2	4,3	2,0	2,5	69,0	0,01580	60,0	
DMD 132 S 8	2,20	5,78	5,50	5,24	710	0,74	79,0	79,0	29,6	4,3	1,9	2,2	69,0	0,02606	79,0	
DMD 132 Sa 8																
DMD 132 Sb 8																
DMD 132 M 8	3,00	7,56	7,20	6,86	710	0,76	80,0	80,0	40,4	4,8	2,1	2,3	72,0	0,03446	85,0	
DMD 132 Ma 8																
DMD 132 Mb 8																
DMD 160 M 8																
DMD 160 Ma 8	4,00	10,5	10,0	9,52	720	0,71	82,6	82,6	53,1	4,8	1,8	2,3	72,0	0,06880	146	
DMD 160 Mb 8	5,50	14,1	13,4	12,8	715	0,71	84,0	84,0	73,5	4,8	1,8	2,1	72,0	0,09390	160	
DMD 160 L 8	7,50	17,5	16,7	15,9	725	0,75	86,5	86,5	99	5,8	2,3	2,1	75,0	0,12027	182	
DMD 180 M 8																
DMD 180 L 8	11,0	26,3	25,0	23,8	715	0,74	86,7	86,7	147	4,2	1,8	2,5	75,0	0,22700	236	
DMD 200 L 8	15,0	30,5	29,0	27,6	720	0,82	91,0	91,0	199	4,5	2,1	2,5	78,0	0,37827	250	
DMD 200 La 8																
DMD 200 Lb 8																
DMD 225 S 8	18,5	38,9	37,0	35,2	710	0,79	91,0	91,0	249	4,6	2,1	2,6	78,0	0,57008	310	
DMD 225 M 8	22,0	47,3	45,0	42,9	715	0,77	91,5	91,5	294	4,6	2,1	2,6	78,0	0,67806	390	
4KTC 250 M 8	30,0	62,0	59,0	56,2	730	0,79	92,8	92,8	392	5,4	1,7	2,4	80,0	1,17500	480	
4KTC 280 S 8	37,0	77,7	74,0	70,5	730	0,78	93,0	93,0	484	6,0	1,9	2,3	80,0	2,30000	610	
4KTC 280 M 8	45,0	94,5	90,0	85,7	735	0,78	93,5	93,5	585	6,4	1,9	2,7	81,0	2,62500	685	
4KTC 315 S 8	55,0	109	104	99,0	735	0,81	94,5	94,5	715	6,2	2,2	2,3	81,0	4,62500	820	
4KTC 315 Ma 8	75,0	147	140	133	740	0,82	94,5	95,5	968	6,3	1,8	2,1	84,0	5,25000	930	
4KTC 315 Mb 8	90,0	182	173	165	740	0,83	91,1	96,5	1.161	6,7	2,5	2,5	84,0	6,00000	1.240	
4KTC 315 L 8	110	224	213	203	740	0,83	90,0	97,5	1.420	6,9	2,6	2,5	84,0	7,30000	1.380	

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.

EExd(e) IIC T4
motor @ 60Hz

DMD - EExd(e) IIC T4 : 8 - Pole; Polig; Pôle; Polos - 900 min⁻¹

All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Dutch Motors® motor type		Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level	Rated output power	Rated current at full-load speed rpm	Full-load torque	Sound pressure level					
		Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft Schalldruckpegel	Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft Schalldruckpegel	Nennstrom bei Leistung	Drehkraft Schalldruckpegel	Nennstrom bei Leistung	Nennstrom bei Leistung	Drehkraft Schalldruckpegel						
		440V - 60Hz	Courant nominale à la vitesse nominale à t/min	Couple	Niveau de pression acoustique	440V - 60Hz	Courant nominale à la vitesse nominale à t/min	Couple	Niveau de pression acoustique	440V - 60Hz	Courant nominale à la vitesse nominale à t/min	Couple	Niveau de pression acoustique					
		460V - 60Hz																
		480V - 60Hz																
		Frame size / Baugröße																
		Hauteur d'axe / Tamaño de carcasa																
		EN60034 (IEC-DIN)																
		P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)	P _N kW	I _N A	n _N min ⁻¹	M _N	dB(A) (EN60034-6)		
DMD	71	A	8	0,11	0, 0	8 0	1, 9	69,0	0,20	0, 0	8 0	,33	69,0	0,20	0,6	8 0	,33	69,0
DMD	71	B	8	0,14	0,5	90	1, 0	69,0	0,20	0,56	90	,4	69,0	0,20	0,54	90	,4	69,0
DMD	80	A	8	0,21	0,69	8 0	,45	69,0	0,30	0,69	8 0	3,50	69,0	0,30	0,66	8 0	3,50	69,0
DMD	80	B	8	0,29	0,9	8 0	3,38	69,0	0,30	0,96	8 0	3,50	69,0	0,30	0,9	8 0	3,50	69,0
DMD	90	S	8	0,43	1,31	8 0	5,01	69,0	0,50	1,30	8 0	5,83	69,0	0,50	1, 5	8 0	5,83	69,0
DMD	90	L	8	0,64	1,84	8 0	,46	69,0	0,70	1,83	8 0	8,16	69,0	0,70	1, 5	8 0	8,16	69,0
DMD	100	L	8															
DMD	100	La	8	0,87	,4	830	10,0	69,0	0,90	,40	830	10,4	69,0	0,90	,30	830	10,4	69,0
DMD	100	Lb	8	1,27	3,41	830	14,6	69,0	1,40	3,39	830	16,1	69,0	1,40	3, 5	830	16,1	69,0
DMD	112	M	8	1,73	4,36	850	19,4	1,0	1,80	4,33	850	0,	1,0	1,80	4,15	850	0,	1,0
DMD	132	S	8	2,53	5, 8	850	8,4	1,0	2,70	5, 4	850	30,3	1,0	2,70	5,50	850	30,3	1,0
DMD	132	Sa																
DMD	132	Sb																
DMD	132	M	8	3,45	,56	850	38,8	4,0	3,60	,51	850	40,5	4,0	3,60	, 0	850	40,5	4,0
DMD	132	Ma																
DMD	132	Mb																
DMD	160	M	8															
DMD	160	Ma	8	4,60	10,5	860	51,1	4,0	4,80	10,4	860	53,3	4,0	4,80	10,0	860	53,3	4,0
DMD	160	Mb	8	6,33	14,1	860	0,3	4,0	6,60	14,0	860	3,3	4,0	6,60	13,4	860	3,3	4,0
DMD	160	L	8	8,63	1,5	8 0	94,	,0	9,00	1,4	8 0	98,8	,0	9,00	16,	8 0	98,8	,0
DMD	180	M	8															
DMD	180	L	8	12,7	6,3	860	140	,0	13,2	6,1	860	14	,0	13,2	5,0	860	14	,0
DMD	200	L	8	17,3	30,5	860	19	80,0	18,0	30,	860	00	80,0	18,0	9,0	860	00	80,0
DMD	200	La																
DMD	200	Lb																
DMD	225	S	8	21,3	38,9	850	39	80,0	22,2	38,6	850	49	80,0	22,2	3 ,0	850	49	80,0
DMD	225	M	8	25,3	4 ,3	860	81	80,0	26,4	46,9	860	93	80,0	26,4	45,0	860	93	80,0
4KTC	250	M	8	34,5	6 ,0	880	3 4	8 ,0	36,0	61,5	880	391	8 ,0	36,0	59,0	880	391	8 ,0
4KTC	280	S	8	42,6	,	880	46	8 ,0	44,4	,	880	48	8 ,0	44,4	4,0	880	48	8 ,0
4KTC	280	M	8	51,8	94,5	880	56	83,0	54,0	93,9	880	586	83,0	54,0	90,0	880	586	83,0
4KTC	315	S	8	63,3	109	880	686	83,0	66,0	108	880	16	83,0	66,0	104	880	16	83,0
4KTC	315	Ma	8	86,3	14	890	9 6	86,0	90,0	146	890	966	86,0	90,0	140	890	966	86,0
4KTC	315	Mb	8	104	18	890	1 111	86,0	108	180	890	1 159	86,0	108	1 3	890	1 159	86,0
4KTC	315	L	8	127	4	890	1 35	86,0	132		890	1 416	86,0	132	13	890	1 416	86,0

All technical details are based on 480V/60Hz; Alle Angaben auf Basis von 480V/60Hz; Tous les détails techniques selon 480V/60Hz; Todos los datos técnicos según 480V/60Hz

DMD - EExd(e) IIC T4 : 4 / 2 - Pole; Polig; Pôle; Polos - 1500 / 3000 min⁻¹



Connection; Einschaltung; Connection; Conexión : Δ / YY - Constant Torque

Dutchi Motors® motor type DMD = EExd(e) IIC T4 EN60034 (IEC-DIN)	rated output power P_N kW	Rated current at			full-load speed rpm n_N min^{-1}	$\cos \varphi$	100% η %	Starting current I_s/I_N	Starting torque M_s/M_N	Pull-out torque M_{out}/M_N	moment of inertia $J = I_s/GD^2$	Weight foot mounted kgm ²	kg
		380V I_u A	400V I_N A	420V I_o A									
DMD 80 A 4/2	0,50 0,65	1,32 1,50	1,26 1,43	1,20 1,36	1.370 2.760	0,83 0,91	69,0 72,0	3,7 3,4	1,7 1,8	1,8 1,9	0,00098	25,0	
DMD 80 B 4/2	0,70 0,85	1,84 1,94	1,75 1,85	1,67 1,76	1.365 2.810	0,83 0,91	70,0 73,0	4,1 5,5	1,9 2,3	2,0 2,4	0,00125	28,0	
DMD 90 S 4/2	1,10 1,40	2,73 3,10	2,60 2,95	2,48 2,81	1.415 2.800	0,83 0,94	74,0 73,0	4,4 4,7	1,8 1,8	1,9 2,0	0,00204	34,0	
DMD 90 L 4/2	1,50 1,90	3,47 4,10	3,30 3,90	3,14 3,71	1.410 2.850	0,85 0,93	76,5 75,5	4,9 5,3	1,9 2,1	2,1 2,3	0,00260	36,0	
DMD 100 LA 4/2	1,80 2,40	4,37 5,51	4,16 5,25	3,96 5,00	1.430 2.860	0,83 0,91	77,5 74,0	4,8 5,0	1,9 1,8	2,0 1,9	0,00388	45,0	
DMD 100 LB 4/2	2,60 3,20	5,93 6,93	5,65 6,60	5,38 6,29	1.420 2.870	0,84 0,92	79,0 76,0	5,1 5,9	1,9 2,0	2,1 2,3	0,00499	49,0	
DMD 112 M 4/2	3,70 4,40	8,82 8,93	8,40 8,50	8,00 8,10	1.460 2.890	0,79 0,93	81,0 81,0	6,6 7,4	2,3 2,3	2,8 2,9	0,01014	64,0	
DMD 132 S 4/2	5,00 6,00	12,1 12,5	11,5 11,9	11,0 11,3	1.460 2.900	0,79 0,92	80,0 79,0	6,2 6,4	2,1 2,2	2,7 2,8	0,02113	89,0	
DMD 132 M 4/2	6,10 7,50	14,5 16,2	13,8 15,4	13,1 14,7	1.450 2.910	0,81 0,94	79,0 76,0	6,7 6,9	2,2 2,2	2,5 2,3	0,02793	99,0	

DMD - EExd(e) IIC T4 : 8 / 4 - Pole; Polig; Pôle; Polos - 750 / 1500 min⁻¹



Connection; Einschaltung; Connection; Conexión : Δ / YY - Constant Torque

Dutchi Motors® motor type DMD = EExd(e) IIC T4 EN60034 (IEC-DIN)	rated output power P_N kW	Rated current at			full-load speed rpm n_N min^{-1}	$\cos \varphi$	100% η %	Starting current I_s/I_N	Starting torque M_s/M_N	Pull-out torque M_{out}/M_N	moment of inertia $J = I_s/GD^2$	Weight foot mounted kgm ²	kg
		380V I_u A	400V I_N A	420V I_o A									
DMD 80 A 8/4	0,20 0,30	0,87 0,83	0,83 0,79	0,79 0,75	690 1.380	0,67 0,89	52,0 62,0	2,8 3,9	1,8 2,0	2,0 2,2	0,00098	25,0	
DMD 80 B 8/4	0,27 0,40	1,13 1,01	1,08 0,96	1,03 0,91	690 1.400	0,65 0,88	56,0 69,0	2,9 4,5	1,9 2,0	2,1 2,2	0,00125	28,0	
DMD 90 S 8/4	0,42 0,80	2,00 2,00	1,90 1,90	1,81 1,81	705 1.390	0,58 0,87	56,0 70,0	2,8 3,9	1,9 1,6	2,0 1,8	0,00204	34,0	
DMD 90 L 8/4	0,50 1,00	2,42 2,36	2,30 2,25	2,19 2,14	710 1.410	0,55 0,87	58,0 74,0	3,1 4,3	1,8 1,7	2,1 1,9	0,00260	36,0	
DMD 100 LA 8/4	0,90 1,30	3,20 3,15	3,05 3,00	2,90 2,86	690 1.380	0,67 0,85	64,0 74,0	3,2 4,2	1,8 1,8	2,0 2,1	0,00388	45,0	
DMD 100 LB 8/4	1,00 1,60	3,36 3,52	3,20 3,35	3,05 3,19	720 1.430	0,65 0,89	70,0 77,0	3,9 5,3	2,0 1,9	2,1 2,2	0,00499	49,0	
DMD 112 M 8/4	1,50 2,50	4,46 5,25	4,25 5,00	4,05 4,76	710 1.430	0,68 0,91	75,0 80,0	4,6 5,7	2,0 1,9	2,2 2,1	0,01014	64,0	
DMD 132 S 8/4	2,30 3,60	7,04 7,67	6,70 7,30	6,38 6,95	720 1.450	0,66 0,89	75,0 80,0	5,3 6,9	2,0 1,9	2,3 2,2	0,02113	89,0	
DMD 132 M 8/4	3,00 5,00	9,98 10,4	9,50 9,90	9,05 9,43	720 1.445	0,60 0,88	76,0 83,0	4,5 5,4	1,9 1,9	2,3 2,3	0,02793	99,0	

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.



DMD - EExd(e) IIC T4 : 6 / 4 - Pole; Polig; Pôle; Polos - 1000 / 1500 min⁻¹

Connection; Einschaltung; Connection; Conexión : Y / Y - Constant Torque

Dutchi Motors® motor type DMD = EExd(e) IIC T4 EN60034 (IEC-DIN)	rated output power P_N kW	ated current at			full-load speed rpm n_N min ⁻¹	full-load power factor $\cos \varphi$	full-load efficiency η %	Starting current I_s/I_N	Starting torque M_s/M_N	Pull-out torque M_{p1}/M_N	moment of inertia $I_{p1}G^2$	Weight foot mounted kg
		380V I_u A	400V I_N A	420V I_o A								
DMD 80 A 6 / 4	0,22 0,32	0, 4 1,10	0, 0 1,05	0,6 1,00	0 1455	0 0, 5	50 5,0	,	1, 4,2	1, 2,1	0,000 25,0	
DMD 80 B 6 / 4	0,26 0,40	0, 1, 4	0, 4 1,2	0, 0 1,22	40 1425	0,65 0, 5	62,0 60,0	,5 ,6	2,0 1,6	2,2 1,	0,00125 2,0	
DMD 90 S 6 / 4	0,45 0,66	1,5 1, 4	1,50 1, 5	1,4 1,6	45 1450	0, 1 0, 4	61,0 4,0	,6 5,	1, 2,1	2,1 2,2	0,00204 4,0	
DMD 90 L 6 / 4	0,60 0,90	1, 2,21	1, 0 2,10	1, 1 2,00	60 1425	0, 2 0, 6	60,0 2,0	,6 4,4	1, 1,6	2,1 1,	0,00260 6,0	
DMD 100 LA 6 / 4	0,90 1,30	2,52 ,15	2,40 ,00	2,2 2, 6	60 1420	0, 0	60,0 2,0	4,0 4,5	1,5 1,6	1, 1,	0,00 45,0	
DMD 100 LB 6 / 4	1,10 1,70	2, ,	2, 0 , 0	2,6 ,52	60 1450	0, 0	1,0 6,0	4, 4	1,6 1,	1, 2,1	0,004 4,0	
DMD 112 M 6 / 4	1,50 2,40	, 5, 0	,55 5,05	, 4, 1	0 1450	, 0	,0 0,0	5, 5,4	2,0 1,	2,2 1,	0,01014 64,0	
DMD 132 S 6 / 4	2,20 3,00	5, 0 6, 0	5,05 6,00	4, 1 5, 1	65 1465	0, 1 0, 0	,0 1,0	5, 6,1	1,6 1,	1, 2,1	0,0211 ,0	
DMD 132 M 6 / 4	3,00 4,50	,04 , 5	6, 0 , 0	6, ,4	5 1460	0, 1 0, 0	0,0 1,5	6,5 6,	2,0 1,	2,2 1,	0,02 ,0	



DMD - EExd(e) IIC T4 : 8 / 6 - Pole; Polig; Pôle; Polos - 750 / 1000 min⁻¹

Connection; Einschaltung; Connection; Conexión : Y / Y - Constant Torque

Dutchi Motors® motor type DMD = EExd(e) IIC T4 EN60034 (IEC-DIN)	rated output power P_N kW	ated current at			full-load speed rpm n_N min ⁻¹	full-load power factor $\cos \varphi$	full-load efficiency η %	Starting current I_s/I_N	Starting torque M_s/M_N	Pull-out torque M_{p1}/M_N	moment of inertia $I_{p1}G^2$	Weight foot mounted kg
		380V I_u A	400V I_N A	420V I_o A								
DMD 90 S 8 / 6	0,35 0,45	1,42 1, 5	1, 5 1,50	1,2 1,4	6 5 60	0,6 0, 1	56,0 61,0	2, ,	1,5 1,5	1, 1,	0,00 2 2,0	
DMD 90 L 8 / 6	0,45 0,60	1, 6 2,1	1, 6 2,0	1,60 1, <td>65 60</td> <td>0,6 0,6</td> <td>50 62,0</td> <td>,0 ,5</td> <td>1,5 1,</td> <td>1, 2,0</td> <td>0,0041 5,0</td> <td></td>	65 60	0,6 0,6	50 62,0	,0 ,5	1,5 1,	1, 2,0	0,0041 5,0	
DMD 100 LA 8 / 6	0,60 0,80	2,15 2,26	2,05 2,15	1, 5 2,05	15 0	0, 1 0, 0	60,0 0,0	2, 4,1	1,4 1,6	1,6 1,	0,0065 46,0	
DMD 100 LB 8 / 6	0,75 0,90	2,52 2,6	2,40 2,50	2,2 2, <td>10 0</td> <td>0, 2 0, 4</td> <td>60,0 1,0</td> <td>,1 4,</td> <td>1,4 1,</td> <td>1,6 2,0</td> <td>0,015 0 60,0</td> <td></td>	10 0	0, 2 0, 4	60,0 1,0	,1 4,	1,4 1,	1,6 2,0	0,015 0 60,0	
DMD 112 M 8 / 6	0,90 1,20	2, 4 ,15	2, 0 ,00	2,6 2, 6	20 0	0, 66 0, 6	0,0 6,0	4,2 5,1	1, 2,2	2,2 2,4	0,02 22 4,0	
DMD 132 S 8 / 6	1,50 2,00	5, 0 5,	5,05 5,50	4, 1 5,24	25 5	0,60 0,6	2,0 ,5	4, 6,2	2,0 2,0	2,5 2,4	0,0 22 ,0	
DMD 132 M 8 / 6	2,20 3,00	,14 ,51	6, 0 ,10	6,4 , 1	25 5	0,6 0,6	4,0 ,0	, 5,	1, 1,	2,1 2,2	0,0 ,0	5,0

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos seg n 400V/50Hz

DMD - EExd(e) IIC T4 : 2 - Pole - 3000 min⁻¹ driven by Frequency Inverter


Selection chart												
Operating Cooling Torque Frequency Ratio Speed	net own 50Hz	-		frequency inverter own constant		frequency inverter own constant		frequency inverter own constant		frequency inverter own constant		
		T - n ²	5Hz - 50Hz	20Hz - 50Hz	10Hz - 50Hz	5Hz - 50Hz	50Hz - 87Hz	1 : 10	1 : 5	3000 - 5200 min ⁻¹	3000 - 5220 min ⁻¹	
				300 - 3000 min ⁻¹	1200 - 3000 min ⁻¹	600 - 3000 min ⁻¹	300 - 3000 min ⁻¹	300 - 3000 min ⁻¹	3000 - 5200 min ⁻¹	3000 - 5220 min ⁻¹	300 - 5220 min ⁻¹	
		Power kW	Power 50Hz	Torque Nm	Power 50Hz	Torque Nm	Power 50Hz	Torque Nm	Power 87Hz	Torque Nm	Power 50Hz	Torque Nm
DMD 71 A 2	0,37	0,3	1,25	0,35	1,20	0,30	1,00	0,22	0,74	0,55	1,00	-
DMD 71 B 2	0,55	0,55	1,90	0,52	1,80	0,45	1,50	0,33	1,10	0,80	1,50	-
DMD 80 A 2	0,75	0,75	2,60	0,70	2,40	0,60	2,00	0,50	1,70	1,10	2,00	-
DMD 80 B 2	1,10	1,10	3,70	1,00	3,40	0,90	3,00	0,75	2,50	1,60	2,90	-
DMD 90 S 2	1,50	1,50	5,00	1,40	4,70	1,20	4,00	1,00	3,30	2,20	4,00	-
DMD 90 L 2	2,20	2,20	7,40	2,00	6,70	1,70	5,70	1,40	4,70	3,30	6,00	-
DMD 100 L 2	3,00	3,00	10,0	2,70	8,90	2,20	7,20	1,80	5,90	4,50	8,20	-
DMD 112 M 2	4,00	4,00	13,0	3,70	12,0	3,20	11,0	2,50	8,20	6,00	11,0	-
DMD 132 SA 2	5,50	5,50	18,0	5,00	16,0	4,50	15,0	3,70	12,0	8,00	15,0	5,50
DMD 132 SB 2	7,50	7,50	25,0	7,00	23,0	6,00	20,0	5,00	16,0	11,0	20,0	7,50
DMD 160 MA 2	11,0	11,0	36,0	10,0	32,0	9,00	29,0	7,50	24,0	16,0	29,0	11,0
DMD 160 MB 2	15,0	14,5	47,0	13,0	42,0	12,0	39,0	10,0	32,0	21,0	38,0	14,5
DMD 160 L 2	18,5	17,5	57,0	16,0	52,0	15,0	49,0	12,0	41,0	26,0	48,0	17,5
DMD 180 M 2	22,0	21,0	68,0	20,0	65,0	18,0	58,0	15,0	49,0	30,0	55,0	21,0
DMD 200 LA 2	30,0	28,0	90,0	27,0	87,0	24,0	77,0	22,0	71,0	40,0	73,0	28,0
DMD 200 LB 2	37,0	32,0	103,0	31,0	100,0	28,0	90,0	27,0	87,0	49,0	90,0	32,0
DMD 225 M 2	45,0	38,0	123,0	37,0	119,0	34,0	110,0	32,0	103,0	60,0	110,0	38,0
												55,0

DMD - EExd(e) IIC T4 : 4 - Pole - 1500 min⁻¹ driven by Frequency Inverter


Selection chart												
Operating Cooling Torque Frequency Ratio Speed	net own 50Hz	-		frequency inverter own constant		frequency inverter own constant		frequency inverter own constant		frequency inverter own constant		
		T - n ²	5Hz - 50Hz	20Hz - 50Hz	10Hz - 50Hz	5Hz - 50Hz	50Hz - 87Hz	1 : 10	1 : 5	300 - 1500 min ⁻¹	150 - 1500 min ⁻¹	
				150 - 1500 min ⁻¹	600 - 1500 min ⁻¹	300 - 1500 min ⁻¹	300 - 1500 min ⁻¹	150 - 1500 min ⁻¹	150 - 1500 min ⁻¹	1500 - 2610 min ⁻¹	150 - 2610 min ⁻¹	
		Power kW	Power 50Hz	Torque Nm	Power 50Hz	Torque Nm	Power 50Hz	Torque Nm	Power 87Hz	Torque Nm	Power 50Hz	Torque Nm
DMD 71 A 4	0,25	0,25	1,70	0,22	1,50	0,19	1,25	0,15	1,00	0,37	1,40	-
DMD 71 B 4	0,37	0,37	2,50	0,33	2,20	0,28	1,90	0,22	1,50	0,55	2,00	-
DMD 80 A 4	0,55	0,55	3,80	0,52	3,50	0,45	3,00	0,33	2,20	0,80	2,90	-
DMD 80 B 4	0,75	0,75	5,20	0,70	4,80	0,60	4,00	0,50	3,30	1,10	4,00	-
DMD 90 S 4	1,10	1,10	7,50	1,00	6,70	0,90	6,00	0,75	5,00	1,60	5,90	-
DMD 90 L 4	1,50	1,50	10,0	1,40	9,50	1,20	8,00	1,00	6,70	2,20	8,00	-
DMD 100 LA 4	2,20	2,20	15,0	2,00	13,0	1,70	11,0	1,40	9,30	3,30	12,0	-
DMD 100 LB 4	3,00	3,00	20,0	2,80	19,0	2,20	15,0	1,80	12,0	4,50	16,0	-
DMD 112 M 4	4,00	4,00	27,0	3,60	24,0	3,00	20,0	2,50	16,0	6,00	22,0	-
DMD 132 SA 4	5,50	5,50	37,0	5,00	33,0	4,40	29,0	3,70	24,0	8,00	29,0	5,50
DMD 132 SB 4	7,50	7,50	50,0	7,00	46,0	6,00	39,0	5,00	33,0	11,0	40,0	7,50
DMD 160 M 4	11,0	11,0	72,0	10,0	65,0	9,00	58,0	7,50	49,0	16,0	59,0	11,0
DMD 160 L 4	15,0	15,0	98,0	13,5	88,0	12,0	78,0	10,0	65,0	21,0	79,0	15,0
DMD 180 M 4	18,5	18,0	118,0	17,0	111,0	15,0	97,0	12,5	81,0	26,0	95,0	18,0
DMD 180 L 4	22,0	21,0	137,0	20,0	130,0	18,0	117,0	15,0	97,0	30,0	110,0	21,0
DMD 200 LB 4	30,0	28,0	183,0	27,0	176,0	24,0	156,0	21,0	136,0	40,0	146,0	28,0
DMD 225 S 4	37,0	32,0	208,0	31,0	201,0	29,0	188,0	26,0	168,0	49,0	179,0	32,0
DMD 225 M 4	45,0	38,0	247,0	37,0	440,0	35,0	227,0	32,0	207,0	60,0	220,0	38,0
												55,0

All technical details are based on 400V/50Hz; Alle Angaben auf Basis von 400V/50Hz; Tous les détails techniques selon 400V/50Hz; Todos los datos tecnicos según 400V/50Hz.



DMD - EExd(e) IIC T4 : Axial & Radial loads

All motors DMD/4KTC 71 ~ 315 with PTB/ATEX certificate / Alle Motoren DMD/4KTC 71 ~ 315 mit PTB/ATEX Zertifikat.

Maximum radial force (F_R) kN			
size	pole	X_0	$X_{1/2}$
71	4	0,48	0,43
	6	0,60	0,54
	6	0,69	0,62
	8	0,76	0,68
80	2	0,64	0,57
	4	0,81	0,72
	6	0,93	0,83
	8	1,02	0,91
90	2	0,72	0,64
	4	0,90	0,80
	6	1,04	0,92
	8	1,14	1,01
100	2	1,01	0,90
	4	1,28	1,15
	6	1,45	1,30
	8	1,61	1,43
112	2	0,99	0,87
	4	1,23	1,09
	6	1,42	1,25
	8	1,57	1,39
132	2	1,56	1,36
	4	1,96	1,78
	6	2,24	1,98
	8	2,45	2,16
160	2	2,99	2,63
	4	3,83	3,38
	6	4,33	3,81
	8	4,79	4,22
180	2	3,55	3,14
	4	4,43	3,82
	6	5,10	4,52
	8	5,63	5,00
200	2	4,33	4,24
	4	4,45	4,95
	6	6,28	5,71
	8	6,88	6,25
225	2	10,40	9,45
	4	13,10	11,65
	6	15,03	13,37
	8	16,60	14,78
250	2	11,64	10,41
	4	14,77	13,22
	6	16,97	15,20
	8	18,73	16,78
280	2	14,52	13,03
	4	18,18	16,31
	6	20,93	18,78
	8	22,93	20,56
315	2	16,55	14,92
	4	20,62	18,57
	6	19,73	17,58
	8	21,93	19,56

Mounting	Maximum axial force (F_A) in kN							
	IM B3 - IM B35 - IM B5 - IM B34 - IM B14 - IM B7 - IM B8				IM V18 - IM V19 - IM V1 - IM V3 - IM V5 - IM V6			
	Weight of rotor in load direction				Weight of rotor in opposite load direction			
rpm	3000	1500	1000	750	3000	1500	1000	750
71	0,27	0,34	0,39	0,43	0,33	0,43	0,47	0,52
80	0,36	0,45	0,52	0,57	0,43	0,55	0,62	0,69
90	0,41	0,51	0,59	0,65	0,48	0,61	0,69	0,77
100	0,55	0,69	0,79	0,88	0,64	0,81	0,92	1,03
112	0,55	0,69	0,79	0,88	0,63	0,77	0,89	1,00
132	0,83	1,04	1,20	1,32	0,92	1,13	1,30	1,48
160	1,52	1,91	2,19	2,41	1,65	2,10	2,40	2,65
180	1,77	2,24	2,56	2,82	1,85	2,30	2,71	3,00
225	2,66	3,36	3,85	4,23	2,71	3,30	3,78	4,25
250	2,98	3,76	4,30	4,73	2,92	3,85	4,07	4,48
280	3,50	4,41	5,05	5,56	3,18	3,76	4,52	4,82
315	3,58	4,51	5,17	5,69	2,33	2,31	2,01	2,55
					6,09	8,15	9,34	10,05

The values are based on normal conditions at 50Hz and calculated at 20.000 working hours for the 2, 4, 6 & 8 pole motors.
For 60Hz the value must be reduced by 10% For two-speed motors, the values have to be based at the higher speed.

Die Daten basieren auf 50Hz und 20.000 Betriebsstunden bei 2, 4, 6 und 8 poligen Motoren. Bei 60 Hz Betrieb müssen die Daten mit 10% reduziert werden. Für mehrpolige Ausführungen sollte man sich auf höhere Umdrehungsstufen orientieren.

Les valeurs sont basées sur des conditions normales d'utilisation à 50Hz et calculées pour 20.000 heures pour les moteurs 2, 4, 6 et 8 pôles. Pour les moteurs 60 Hz, les valeurs doivent être réduites de 10%. En ce qui concerne les moteurs multi-vitesses, les valeurs doivent être basées sur la vitesse la plus élevée.

Los valores están tomados en condiciones normales a 50Hz y calculados para motores de 2, 4, 6 y 8 polos a 20.000 horas de trabajo. A 60Hz deben reducirse los valores en un 10%. Para motores de dos velocidades los valores deben tomarse a mayor velocidad.