

1TZ5 C 280M-4 110kW B35 IE4

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	110.00	-/-	187.00	1490	700.0	96.3	96.6	96.5	0.88	0.85	0.78	9.5	2.9	3.5	IE4
690	Y	50	110.00	-/-	109.00	1490	700.0	96.3	96.6	96.5	0.88	0.85	0.78	9.5	2.9	3.5	IE4
460	Δ	60	110.00	-/-	165.00	1791	590.0	96.2	96.3	95.9	0.87	0.84	0.75	11.0	3.3	3.8	IE4
460	Δ	60	127.00	-/-	188.00	1790	680.0	96.2	96.4	96.2	0.88	0.86	0.79	9.4	2.8	3.3	IE4
IM B35 / IM2001			FS 280 M			IP55	UKCA		IEC/EN 60034								
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 23.4 s 35.5 s								

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 84 dB(A) ^{2) 3)}	73 / 88 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	2.5500 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Thermal class	F	
permissible lateral force on (N) (N)	x ₀ : 8500	x _{0,5} : 7750	x _{max} : 7000	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	30 g 30 g 8000 h		Net weight of the motor	805 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	(Standard) Yes		'SIMOTICS Connect 400' in IP65	No	

Terminal box position	box at the top	Max. cross-sectional area	120 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

Notes:

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_B/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
	title			document number			
	1TZ5504-2DB63-4JB4			rev.	creation date	language	Page
				943	2023-06-20	en	1/1