

TX serie



Motor catalog TX - Erp
HB3 112M 4 400-50 B5

Configured motor

Designation

HB3 112M 4 400-50 B5

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Pn 4 kW (5.4 hp)

Motor specifications

- Voltage value stated on nameplate: 400@50Hz

Motor mounting position (IM) B5

Optional paint 1HRAL5010

Electric motor technical data TX catalog

Type	HB3 112 M 4	
Size	112	
Poles	4	
Coupling dimensions Ø D x E - Ø P	Ø28 x 60 Ø250	
Power supply	[V - Hz] 400 - 50	
Nominal input power P_{N1}	[hp] 5.4	
Nominal speed n_N	[min ⁻¹] 1 445	
Motor mass	[lb] 77	
Directive	Motor ErP	
Efficiency class	IE3	
Power factor cosφ	0.8	
Moment of inertia J_0	[lb ft ²] 0 047.84041	
Overtemperature class	B	
Insulation class	F	
Protection	IP55	
Type of duty	S1	
Synchronous speed	[min ⁻¹] 1 500	

Efficiency

100 %	88.60
75 %	90.40
50 %	89.20

Nominal data

Nominal torque M_N	[Lb-in] 233.98
Nominal starting torque M_s / M_n	3.70

Maximum torque M_{MAX} / M_n	4.70
Starting current ratio i_s / i_n	9.00
Rated current I_n @230 [V]	[A] 12.30
Rated current I_n @400 [V]	[A] 8.15

Construction features

Housing	Material	Light alloy
End-shield N-D-E		Light alloy
Fan cover		Galvanized plate
Cooling fan		Plastic
Terminal box cover		Light alloy
Bearing D-E	Lubricated for life assuming pollution free surrounding	6306 2Z
Bearing N-D-E		6306 2Z
DE seal ring	NBR material type "A"	30 x 50 x 7
N-DE seal ring	NBR material type "A"	30 x 50 x 7
6-pin terminal block	Pin size	M5
Cable entry	Predetermined fracture	2 x M16 + 2 x M25
Ø D x E shaft / Ø P flange	B5	Ø28 x 60 / Ø250
Hole in head/back		M10 / M10
Keyway type A		8 x 7 x 50
Flange material / shaft		Light alloy / C45

Motor main dimensions [mm]

