

TX serie



Motor catalog TX - Erp
HB3 90S 6 230.400-50 B5

Configured motor

Designation

HB3 90S 6 230.400-50 B5

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Pn 0.75 kW (1 hp)

Motor specifications

- 3 voltage values stated on nameplate:
220.380 @50Hz
230.400 @50Hz
240.415 @50Hz

Motor mounting position (IM) B5

Electric motor technical data TX catalog

Type	HB3 90 S 6	
Size	90	
Poles	6	
Coupling dimensions Ø D x E - Ø P	Ø24 x 50 Ø200	
Power supply	[V - Hz] 230.400 - 50	
Nominal input power P_{N1}	[hp]	1
Nominal speed n_N	[min ⁻¹]	950
Motor mass	[lb]	41
Directive	Motor ErP	
Efficiency class	IE3	
Power factor cosφ	0.68	
Moment of inertia J_o	[lb ft ²]	0 019.47788
Overtemperature class	B	
Insulation class	F	
Protection	IP 55	
Type of duty	S1	
Synchronous speed	[min ⁻¹]	1 000

Efficiency

100 %	78.90
75 %	77.30
50 %	72.50

Nominal data

Nominal torque M_N	[Lb-in] 66.73
Nominal starting torque M_s / M_n	3.10
Maximum torque M_{MAX} / M_n	3.30
Starting current ratio i_s / i_n	5.30
Rated current I_n @230 [V]	[A] 3.05
Rated current I_n @400 [V]	[A] 2.02

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	6205 2Z
Bearing N-D-E		6205 2Z
DE seal ring	NBR material type "A"	25 x 46 x 7
N-DE seal ring	NBR material type "A"	25 x 46 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	Ø24 x 50 / Ø200
Hole in head/back		M8 / M8
Keyway type A		8 x 7 x 40
Flange material / shaft		Light alloy / C45

Motor main dimensions [mm]

