



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3154-1AP72-7AA0-Z
K40+K84+M02+T20+X01

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data

	P _N [kW]	M _N [Nm]	I _N [A]	n _N [rpm]	M _{max} [Nm]	I _{max} [A]	n _{max, Inv} [rpm]	M ₀ [Nm]	I ₀ [A]
ALM 400V	23.5	300	47.5	750	600	113	1,420	315	49
ALM 480V	27.5	295	46	890	600	113	1,420	315	49
SLM 400V	21.0	300	47.5	670	600	113	1,420	315	49
SLM 480V	25.0	300	47.5	800	600	113	1,420	315	49

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	150
Cooling	Water cooling
Vibration severity grade	Grade A
Shaft and flange accuracy	Tolerance N (at normal running temperature)
Degree of protection	IP54
Design acc. to Code I	IM B14
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Jet black, matt RAL 9005
Type of the bearing	Normal (Standard)
Shaft end	Hollow shaft
Encoder system	Incremental encoder sin/cos 1 Vpp 2048 S/R with C and D tracks (encoder IC2048S/R)
Encoder mounting system	Belt-mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB ¹⁾

Limiting data

Max. permissible speed (mech.)	1,700 rpm
Max. permissible speed (inverter)	1,420 rpm
Maximum torque	600 Nm
Maximum current	113 A

Physical constants

Thermal time constant	4 min
Moment of inertia	2,000 kgcm ²
Weight (approx.)	129 kg

Connection

Type of electrical connection	Terminal box for power cable, connector for encoder signals and temperature sensor
Terminal box position	NDE
Power connection	Terminal box top

Special design

- K40 Regreasing system
- K84 Connector outlet direction turned by -90°
- M02 Terminal box type GK603 with removable cable entry plate with 2x M63x1.5
- T20 Shaft cover at NDE
- X01 Paint finish: Jet black, matt RAL 9005

¹⁾ at 4 kHz rated pulse frequency at the rated operating point