



Figure similar

## Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3201-3ES62-5DH0

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	29.0	230	50	1,200	500	114	1,890	260	54
ALM 480V	33.5	220	48	1,450	500	114	1,890	260	54
SLM 400V	26.0	235	51	1,050	500	114	1,890	260	54
SLM 480V	30.5	225	49	1,300	500	114	1,890	260	54

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	200
Cooling	Water cooling
Vibration severity grade	Grade A
Shaft and flange accuracy	Tolerance N (at normal running temperature)
Degree of protection	IP55
Design acc. to Code I	IM B14
Temperature monitoring	Pt1000 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft end	Solid shaft
Encoder system	Absolute encoder 2048 S/R, 4096 revolutions, multi-turn (encoder AM2048S/R)
Encoder mounting system	Coaxial mounted
Sound pressure level LpA(1m) motor rated load, tolerance + 3dB	73 dB <sup>1)</sup>

### Limiting data

Max. permissible speed (mech.)	1,800 rpm
Max. permissible speed (inverter)	1,890 rpm
Maximum torque	500 Nm
Maximum current	114 A

### Physical constants

Thermal time constant	10 min
Moment of inertia	2,200 kgcm <sup>2</sup>
Weight (approx.)	176 kg

### Connection

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

<sup>1)</sup> at 4 kHz rated pulse frequency at the rated operating point