



Figure similar

Data sheet for SIMOTICS T-1FW3

Article No. : 1FW3281-3EM68-6AS0

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	138.0	2,200	255	600	4,050	510	1,050	2,500	290
ALM 480V	157.0	2,050	245	730	4,050	510	1,050	2,500	290
SLM 400V	123.0	2,250	260	520	4,050	510	1,050	2,500	290
SLM 480V	146.0	2,150	250	650	4,050	510	1,050	2,500	290

Mechanical data

Motor type	Permanent-magnet synchronous motor
Shaft height	280
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	Special design (AH 280 plug-on installation not standardized)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Color	Anthracite grey RAL 7016 (Standard)
Type of the bearing	Normal (Standard)
Shaft end	Plug-on 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 ¹⁾

Limiting data

Max. permissible speed (mech.)	1,380 rpm
Max. permissible speed (inverter)	1,050 rpm
Maximum torque	4,050 Nm
Maximum current	510 A

Physical constants

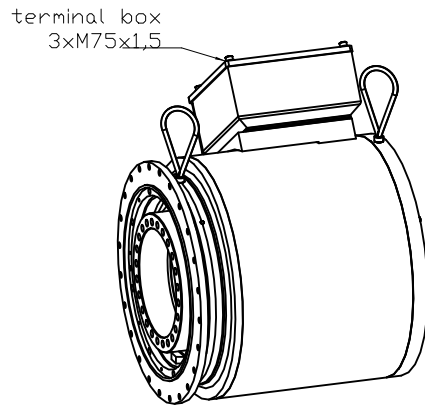
Thermal time constant	10 min
Moment of inertia	36,100 kgcm ²
Weight (approx.)	660 kg

Connection

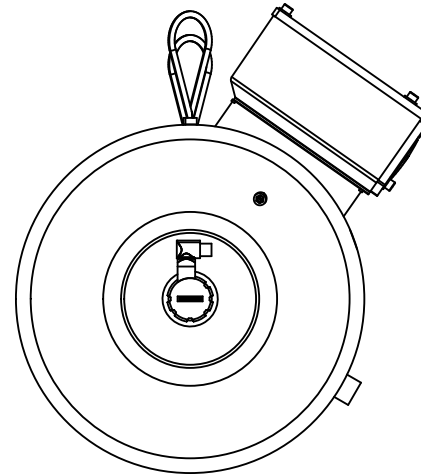
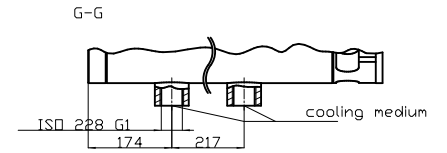
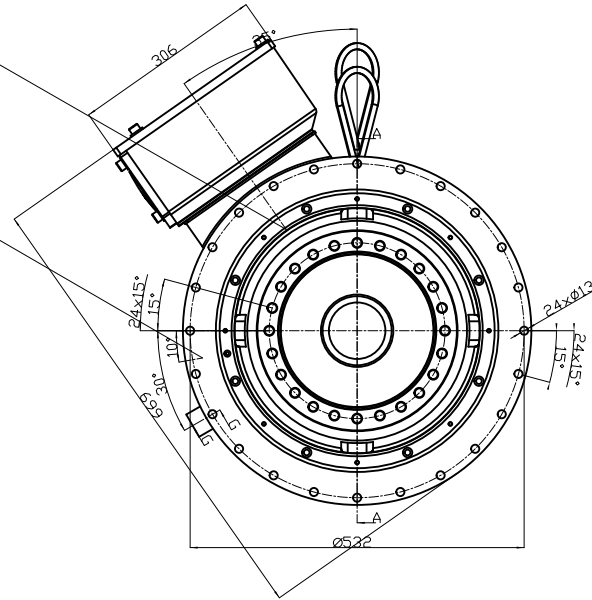
Type of electrical connection	Terminal box for power cable, connector for encoder signals and temperature sensor
Terminal box position	Transverse left
Power connection	Terminal box top

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

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lubricating nipple,
cone type DE
DIN 71412 - A M8x1



			
Unit	mm (in)	1FW3281-3EM68-6AS0	
Date	12/28/22		
SIEMENS AG			
		DT	