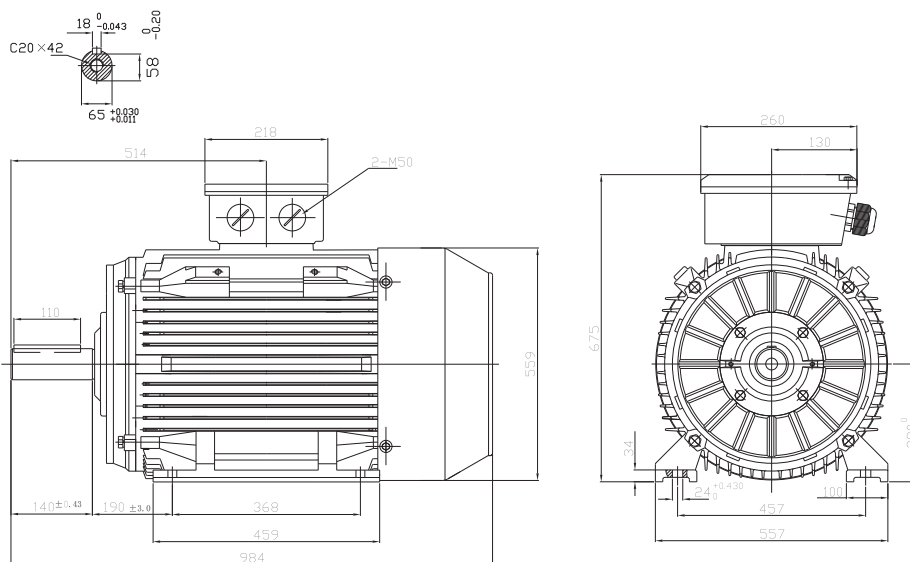


Type T3C 280S-2

Cod. R2800275,0B3A5G0000T

Mounting position

IM	B3
IM	1001



Electrical data			
Rated motor power	75		Kw
Rated motor speed	2940		min ⁻¹ 50Hz
	3530		min ⁻¹ 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	230		VΔ/50Hz
	400		VY/50Hz
	280		VΔ/60Hz
	480		VY/60Hz
Rated motor torque	243.6		Nm (Mn)
Rated motor current	216.35	VΔ/50Hz	A (In)
	125.06	VY/50Hz	A (In)
Starting motor current	8		xIn
Starting motor torque	2.2		xMn
Breakdown motor torque	2.7		xMn
Starting			D.O.L.
Efficiency class	IE3		
Efficiency	50Hz	60Hz	
	94.7	94.2	100% load
	94.9	94.9	75% load
	93.7	93.4	50% load
Power factor cosφ	0.92	0.92	100% load

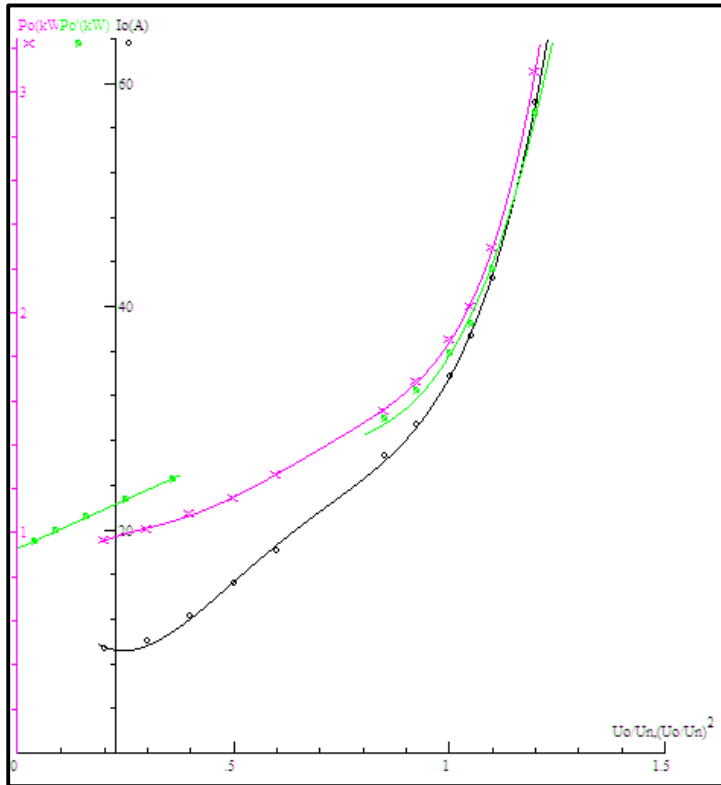
General data			
Frame size	280		
Mounting	B3		
Weight	733.6		Kg
Casing material	Cast iron		
Protection	IP		55
Insulation class/Temperature rise	F	/	B
Tropicalization	Yes		
Vibration class	N		
Duty	S1		
Direction of rotation	Bidirectional		
Method of cooling	IC		411
Cable entry	2-M50x1,5+1M16x1,5		
Standards	IEC/DIN/ISO/VDE/EN		
Execute at Standard	IEC 60034-1		
Feet removable	No		
Paintwork	RAL	7024	dark grey
Thermal protections	PTC 150°C		Standard

Site conditions	
Ambient temperature	from -20°C to +40°C
Altitude above sea level	1000 m

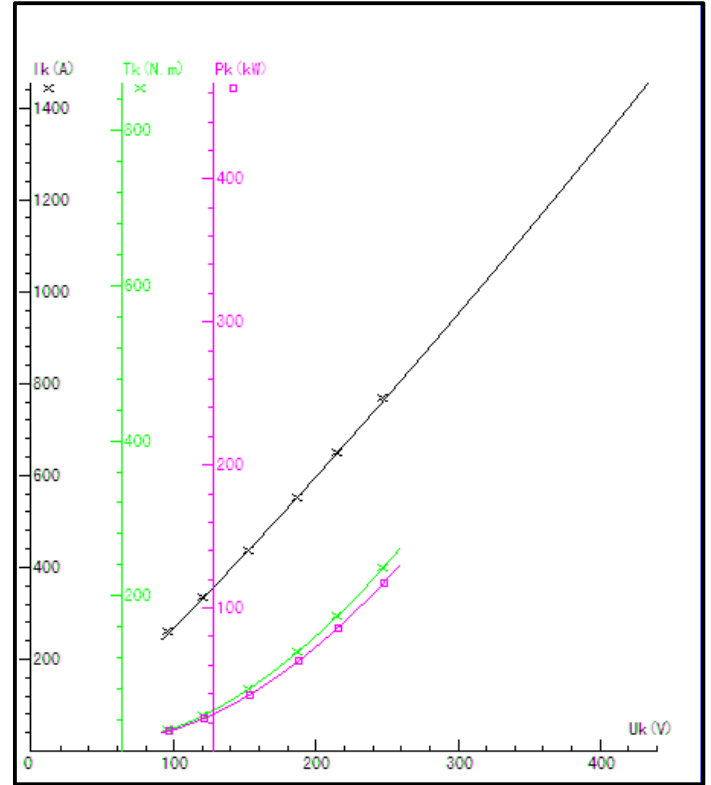
Mechanical data						
Noise level	LpA	78	dB(A)	Bearing DE side	6316-C3	
	LwA	88	dB(A)	Bearing NDE side	6316-C3	
Moment of inertia	0.79856		Kgm ²	Average bearing lifetime	40000 h	
Bearings type			NSK	Relubrication interval L1 DE bearing	3500 h	
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	3500 h	
				Compensation ring	NDE SIDE	standard

Type	T3C 280S-2			Output	75 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test
Duty	S1			Connection method	Δ / Y	Poles	2 P	Speed	r/min	Basic temp.	95 °C	
Insulation resistance	(M Ω)	Phase vs.Phase	Phase vs.Ground	DC Resistance determination(Ω)		over loading test		160% of Rated torque.for 15S		Pass		
	Cold state			Line R	Value	150% of Rated current.for 120S		Pass				
	Hot state	300		R _{UV}	0,03224	Inter-turns insulation test						
High-voltage	1760 V for		60 S	R _{UV}	0,03229	130% of Rated voltage.for 180		Pass				
	Phase vs.Phase		Pass	R _{VW}	0,03228	Over speed test						
	Phase vs.Ground		Pass	Ambient.	22,6 °C	120% of Rated max.frequency.for 120S		Pass				
Item		Result	Standard value	Tolerance (%)	Reference temp R (Ω)	0,06201	Hot state temp. (°C)	29,3				
Efficiency	100% P _n	(%)	95,18		Three-phase R deviation (%)	0,09	Middle part of enclosure temp.(°C)	100,2				
	75% P _n	(%)	95,023		No-load current (A)	33,55	Temp. of frame (°C)	54				
	50% P _n	(%)	94,105		No-load current deviation (%)	6,26	Temp. of Airin-N (°C)	98,9				
Power factor		0,908			No-load input power (kW)	1,8638	Temp. of Airout-D (°C)	29,3				
Temperature rise of stator winding	0 S	(K)	71,3		Full-load input current (A)	125,2	Environment humidity (%)					
	30/90 S	(K)	71,3		Full-load input power (kW)	78,801	Degree of protection (IP)	IP55				
Slip (%)		0,69583			Core loss (kW)	0,8703	Insulation class	F				
Locked current (A)		1324			Friction and wind age loss(kW)	0,93059						
Locked rotor current /Rated current		10,57			StatorI2Rloss (kW)	0,97152	Cold checking test					
Locked torque (Nm)		713			RotorI2Rloss (kW)	0,53551	50 Hz 400/690 V No-load test data					
Locked rotor torque/Rated torque		2,98			Stary-load loss (kW)	0,49357	No-load current (A)					
Maximum torque (Nm)		861,4			wastage summation (kW)	3,8015	No-load power (kW)		1,8638			
Breakdown torque/Rated torque		3,6			Output (kW)	75	50 Hz V Locked test data					
Pull-up torque (Nm)		393,8			Rated torque (N.m)	239,49	Locked current (A)					
Pull-up torque/Rated torque		1,64			Full-load speed (r/min)	2979,1	Locked power: (kW)					
Noise Lp (A) dB												
Vibrancy (mm)												
Bearing temperature rise (K)		65										
Vibration Test												
Displacement (μ m)												
velocity (mm/s)												
Acceleration (m/s ²)					Mechanical check		Complete assembly, Flexible rotating, Correct Direction.					

NO LOAD



LOCKED ROTOR



LOAD

