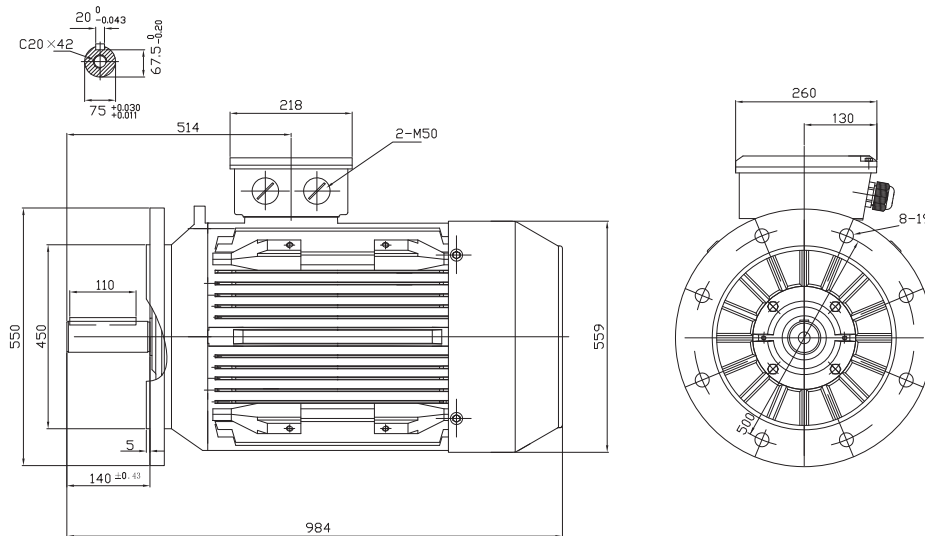


Type T3C 280S-4

Cod. R2800475,0B5B5G0000T

Mounting position

IM	B5
IM	3001



Electrical data			
Rated motor power	75		Kw
Rated motor speed	1480		min <sup>-1</sup> 50Hz
	1780		min <sup>-1</sup> 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	400		VΔ/50Hz
	690		VY/50Hz
	480		VΔ/60Hz
	830		VY/60Hz
Rated motor torque	483.92		Nm (Mn)
Rated motor current	125.22	VΔ/50Hz	A (In)
	72.38	VY/50Hz	A (In)
Starting motor current	7.5		xIn
Starting motor torque	2.2		xMn
Breakdown motor torque	2.6		xMn
Starting			D.O.L.
Efficiency class	IE3		
Efficiency	50Hz	60Hz	
	95	95.8	100% load
	95.1	96.5	75% load
	94.8	95	50% load
Power factor cosφ	0.91	0.91	100% load

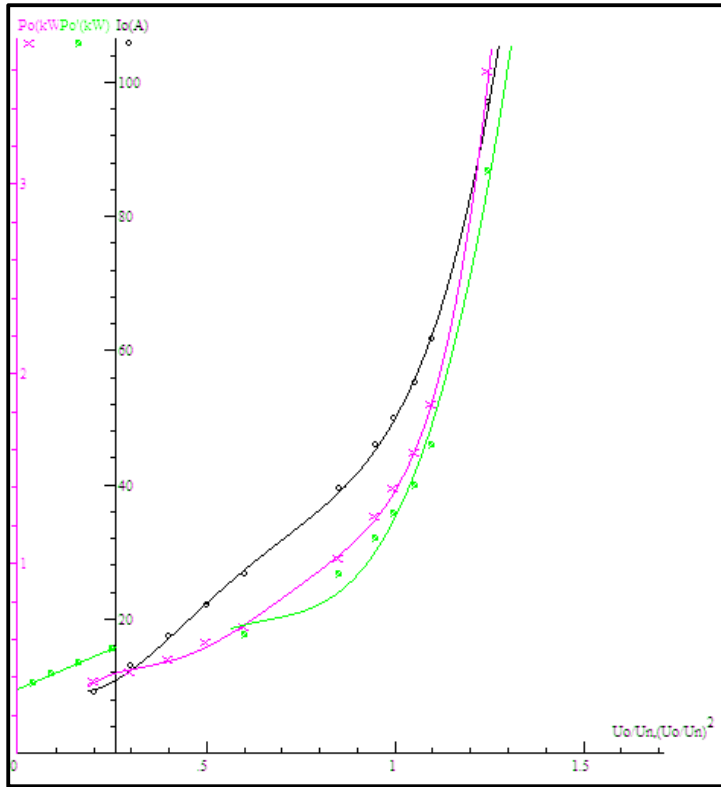
General data			
Frame size	280		
Mounting	B5		
Weight	687.68		Kg
Casing material	Cast iron		
Protection	IP	55	
Insulation class/Temperature rise	F	/	B
Tropicalization	Yes		
Vibration class	N		
Duty	S1		
Direction of rotation	Bidirectional		
Method of cooling	IC	411	
Cable entry	2-M50x1,5+1M16x1,5		
Standards	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

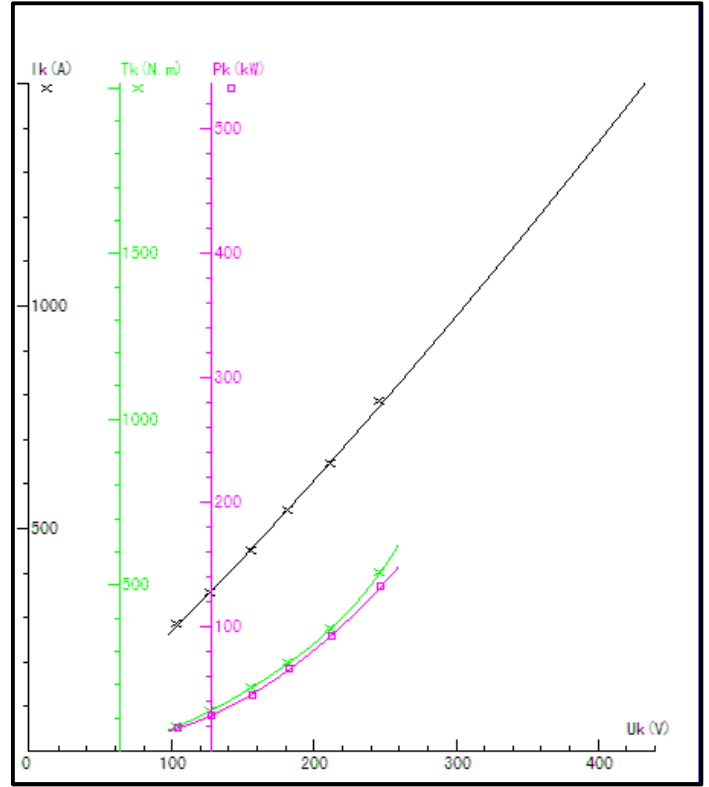
Mechanical data						
Noise level	LpA	73	dB(A)	Bearing DE side	6316-C3	
	LwA	83	dB(A)	Bearing NDE side	6316-C3	
Moment of inertia	1.59742		Kgm <sup>2</sup>	Average bearing lifetime	40000 h	
Bearings type			NSK	Relubrication interval L1 DE bearing	10500 h	
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	10500 h	
				Compensation ring		NDE SIDE standard

Type	T3C 280S-4			Output	75 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test
Duty	S1			Connection method	$\Delta / Y$	Poles	4 P	Speed	r/min	Basic temp.	95 °C	
Insulation resistance	(M $\Omega$ )	Phase vs.Phase	Phase vs.Ground	DC Resistance determination( $\Omega$ )		over loading test		160% of Rated torque.for 15S		Pass		
	Cold state			Line R	Value	150% of Rated current.for 120S		Pass				
	Hot state	500		R <sub>UV</sub>	0,03519	Inter-turns insulation test						
High-voltage	1760 V for		60 S	R <sub>UV</sub>	0,0352	130% of Rated voltage.for 180		Pass				
	Phase vs.Phase		Pass	R <sub>VW</sub>	0,03521	Over speed test						
	Phase vs.Ground		Pass	Ambient.	13,3 °C	120% of Rated max.frequency.for 120S		Pass				
Item		Result	Standard value	Tolerance (%)	Reference temp R ( $\Omega$ )	0,070173	Hot state temp. (°C)	15,2				
Efficiency	100% P <sub>n</sub>	(%)	94,97		Three-phase R deviation (%)	0,03	Middle part of enclosure temp.(°C)	84,1				
	75% P <sub>n</sub>	(%)	95,237		No-load current (A)	49,79	Temp. of frame (°C)	31				
	50% P <sub>n</sub>	(%)	94,884		No-load current deviation (%)	4,12	Temp. of Airin-N (°C)	88,3				
Power factor		0,871			No-load input power (kW)	1,3795	Temp. of Airout-D (°C)	15,2				
Temperature rise of stator winding	0 S	(K)	69,3		Full-load input current (A)	130,8	Environment humidity (%)					
	30/90 S	(K)	69,3		Full-load input power (kW)	78,969	Degree of protection (IP)	IP55				
Slip (%)		0,65971			Core loss (kW)	0,90302	Insulation class	F				
Locked current (A)		1367			Friction and wind age loss(kW)	0,33811						
Locked rotor current /Rated current		10,45			StatorI2Rloss (kW)	1,2166	Cold checking test					
Locked torque (Nm)		1667			RotorI2Rloss (kW)	0,50698	50 Hz 400/690 V No-load test data					
Locked rotor torque/Rated torque		3,57			Stary-load loss (kW)	1,0045	No-load current (A)					
Maximum torque (Nm)		1581			wastage summation (kW)	3,9692	No-load power (kW)		1,3795			
Breakdown torque/Rated torque		3,39			Output (kW)	75	50 Hz V Locked test data					
Pull-up torque (Nm)		966,1			Rated torque (N.m)	466,81	Locked current (A)					
Pull-up torque/Rated torque		2,07			Full-load speed (r/min)	1490,1	Locked power: (kW)					
Noise Lp (A) dB												
Vibrancy (mm)												
Bearing temperature rise (K)		50										
Vibration Test												
Displacement ( $\mu$ m)												
velocity (mm/s)												
Acceleration (m/s <sup>2</sup> )					Mechanical check		Complete assembly, Flexible rotating, Correct Direction.					

### NO LOAD



### LOCKED ROTOR



### LOAD

