DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22Xdb Flameproof - Standard Efficiency IE1 Multivoltage

Frame	: 280S/M	Cooling method	: TEFC-XP
Insulation class	: F	Mounting	: B3T
Duty cycle	: S1	Direct of rotation[1]	: Both
Ambient temperature	: -20 ℃ to +40 ℃	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l	Approx. weight[3]	: 852 kg
Degree of protection	: IP66	Moment of inertia (J)	: 1.56 kgm²
Design	: N		

Output		75 kW	75 kW	75 kW
Poles		4	4	4
Frequency		50 Hz	50 Hz	50 Hz
Rated voltage		380/660 V	400/690 V	415 V
Rated current		142/81.8 A	136/78.8 A	133 A
L. R. Amperes		937/540 A	898/520 A	878 A
LRC (p.u.)		6.6	6.6	6.6
No load current		40.0/23.0 A	44.0/25.5 A	48.0 A
Rated speed		1480 rpm	1485 rpm	1485 rpm
Slip		1.33 %	1.00 %	1.00 %
Rated torque		484 Nm	483 Nm	483 Nm
Locked rotor torque		180 %	200 %	220 %
Breakdown torque		230 %	260 %	280 %
Service factor		1.00	1.00	1.00
Noise level[2]		71.0 dB(A)	71.0 dB(A)	71.0 dB(A)
Locked rotor time		22 s (hot) 40 s (cold)	22 s (hot) 40 s (cold)	22 s (hot) 40 s (cold)
Efficiency (%)	50%	93.3	93.0	92.7
	75%	93.5	93.5	93.4
	100%	93.3	93.5	93.5
Power factor	Start	0.34	0.34	0.34
	50%	0.77	0.73	0.70
	75%	0.83	0.81	0.79
	100%	0.86	0.85	0.84

	Drive end	Non drive end
Bearing type	6319-C3	6316-C3
Lubrication interval	11000 h	13000 h
Lubricant amount	45 g	34 g
Lubricant type	MOBIL POLYREX EM	

Foundation loads

Maximum traction : 7648 N

Maximum compression : 16006 N

Standards

Specification	: IEC 60034-1	Vibration	: IEC 60034-14
Tests	: IEC 60034-2	Tolerance	: IEC 60034-1
Noise	: IEC 60034-9		

This revision replaces and cancels the previous one, which must be eliminated.

(1) When viewed from the drive end.

(2) Measured at 1m and with tolerance of +3dB(A).

(3) Approximate weight subject to changes after manufacturing process.

(4) At the rated point.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in SABS.

Rev.	Summary of changes	Performed	Checked	Date

Performed by	jhodson	260647/2020-A	
Checked by		Page	Revision
Date	27/07/2020	1/1	0

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