

# IE3

"Premium Efficiency"



## DATA SHEET FOR THREE-PHASE SQUIRREL-CAGE MOTOR

### Type: DM3-IE3 280S6

Electrical data			
Rated motor frequency	50Hz	60Hz	
Rated motor power	45,0	54,0	kW
Rated motor speed	980	1176	RPM
Rated motor voltage	400 / 690	440 - 480	V
Rated motor torque	439		Nm
Rated motor current	81,6 / 47,3	89,0 - 81,6	A
Starting motor current	7,3		xIn
Starting motor torque	2,0		xMn
Brakedown motor torque	2,4		
Starting			D.O.L
Efficiency class	IE3		
Efficiency	93,70%		100% load
	94,00%		75% load
	93,50%		50% load
Power factor cosp	0,85		100% load

General data		
Frame size	280	mm
Mounting	B3,B5,B35	
Weight	509kg	
Casing material	Cast Iron	
Protection	IP	55
Insulation class	F	
Temp. Rise	80K	
Vibration	2,8mm/s	
Duty	S1	
Dir. Rotation	Both	
PTC	3 x 150°C	
RAL	7031	
Site Conditions		
Ambient temperature	from -20°C to +40°C	
Altitude above sea level	1000 m	

Mechanical data				
Noise level	78	dB(A)	Bearing DE side	6317 C3
Moment of inertia	2,252	kg/m2	Bearing NDE side	6317 C3

**Certification:**

**Extras:**

Drawing made by	Date	sign.
Dennis Barrit	26-10-2020	

There may be differences between rating plate and calculated values