

**Three-phase induction motor with squirrel cage rotor**
**Electrical data**

Rated motor power	kW	1700
Rated motor voltage	V	Y 11000
Rated voltage tolerance		Zone A (V: $\pm 5\%$ ; f: $\pm 2\%$ )
Rated frequency	Hz	50
Number of poles		2
Rated motor speed	rpm	2980
Rated motor current	A	101
Power factor		0,91
Efficiency		96,2%
Breakdown-/Rated torque (Tb/Tn)		2,6
Starting-/Rated torque (Ts/Tn)		0,8
Starting-/Rated current (Is/In)		6,4

**Mechanical data**

Weight	kg	5700
Rotor inertia	kgm <sup>2</sup>	26,0
Direction of rotation (from DE side)		clockwise
Balance		Half-key
Vibration grade		A
Bearing		Sleeve bearings with forced lubrication
Bearing type DE		
Oil flow rate DE	l/min	4,5
Bearing type NDE		
Oil flow rate NDE	l/min	4,5
Lubricating oil		Oil DIN 51517 – C 32

**General data**

Frame size		560
Type of construction		IM B3
Material of housing		Welded steel
Material of terminal box		Welded steel
Degree of protection		IP54
Method of cooling		IC81W
Thermal class - temperature rise		F / $\Delta T = 80$ K
Duty type		S1
Sound pressure level, no load at 1 m	dB(A)	85,0
Painting		RAL 7030
Standards		EN 60034-1

**Site conditions**

Ambient temperature (min / max)	°C	-20	+40
Coolant temperature (min / max)	°C	+20	+32
Cooling water quantity	m <sup>3</sup> /h	10	
Max. altitude above sea level	m	1000	

**Accessories**

Thermal protection		6 + 2 x PT100		
Space heater	V	230	W	400
Space heater bearings	V		W	

The rating plate values may vary from the calculated values.

Type	Identification	Prepared	Date	Checked	Revision	Status	Sheet
DWK560L-02	12032400366	Rb	30.01.24	PR	01	C	1/2

**Motor characteristics**
