



Kinetics LV (low voltage 0,07kW-375kW)

Electric motors for standard and heavy duty operations-powerfull, efficient and flexible

Technical datasheet



SOLUTIONS FOR INDUSTRY



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Datasheet for three-phase motors

Motor type: 1LC280M-6, 55 kW

Electrical data

Power 50Hz (kW)	55,00
Power 60Hz (kW)	66,00
Frequency (Hz)	50/60
Voltage 50Hz (V)	400/690
Voltage 60Hz (V)	460/795
Voltage / frequency tolerance (invalid at range voltage)	Range B
Type of winding	Δ/Y
Number of poles	6
Efficiency 100% 50Hz (%)	93,1
Efficiency 75% 50Hz (%)	93,4
Efficiency 50% 50Hz (%)	91,2
Efficiency 100% 60Hz (%)	94,1
Efficiency 75% 60Hz (%)	93,4
Efficiency 50% 60Hz (%)	91,2
Power factor	0,86
Starting current (I_a/I_n)	7,1
Starting torque (M_a/M_n)	2,1
Breakdown torque (M_k/M_n)	2
Rated current 50Hz (A)	99,15/57,48

General data

Number of phases	3~
Type designation	1LC
Frame size	280
Type	B3
Housing material	GG
Housing design	M
Insulation class	F/B
Terminal box position	top
Terminal box Alignment	0 ° KV to the right
Weight (kg)	550,00
Direction of rotation	right/left
Vibration stage	A
Balancing	half key
Cooling type	IC411
Version according to	IEC 60034-1
Noise limit	IEC 60034-9

Mechanical data

Torque (Nm)	535,97/535,97
Speed (rpm)	980/1176
Bearing (DE side)	6317.ZZ.C3
Bearing (NDE side)	6317.ZZ.C3
Bearing life (h)	20000
Permissible radial load (X/2) (N)	9087
Permissible radial load (X0) (N)	9925
Permissible radial load (Xmax) (N)	8250
Permissible axial load (N)	8125
Permissible axial load (V1) (N)	6450
Moment of inertia (kgm ²)	1,6

Factors

Operation mode	duty interval S1
Ambient temperature (°C)	-20 to +40
Installation height (m)	altitude up to 1000m

Motor characteristics

Painting	RAL7030
Paint surface	satin gloss
Protection class	IP55
Cable gland size (Cable)	2xM63x1,5
Cable gland size (option)	M20x1,5
Cable gland (type)	standard
Standard shaft end (mm)	75x140
Shaft material	C45

Additional option

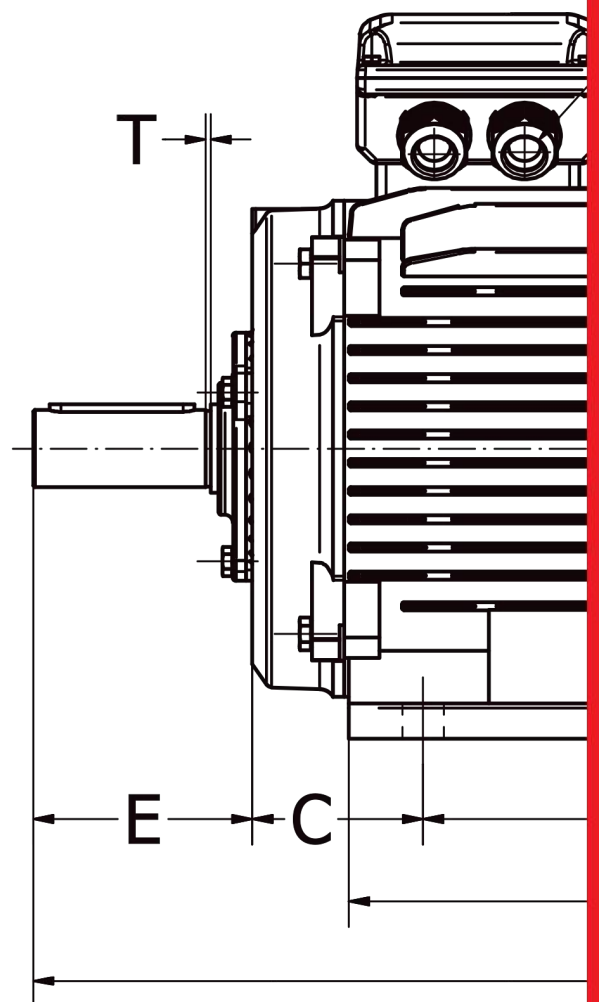
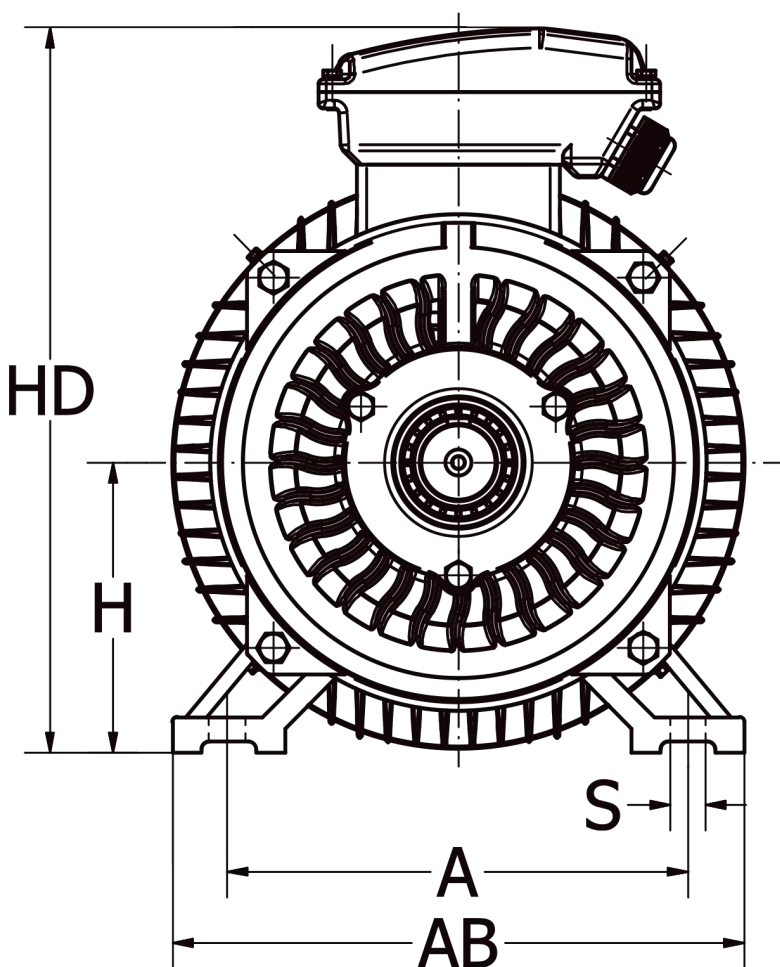
Extra protection	PTC 150°C
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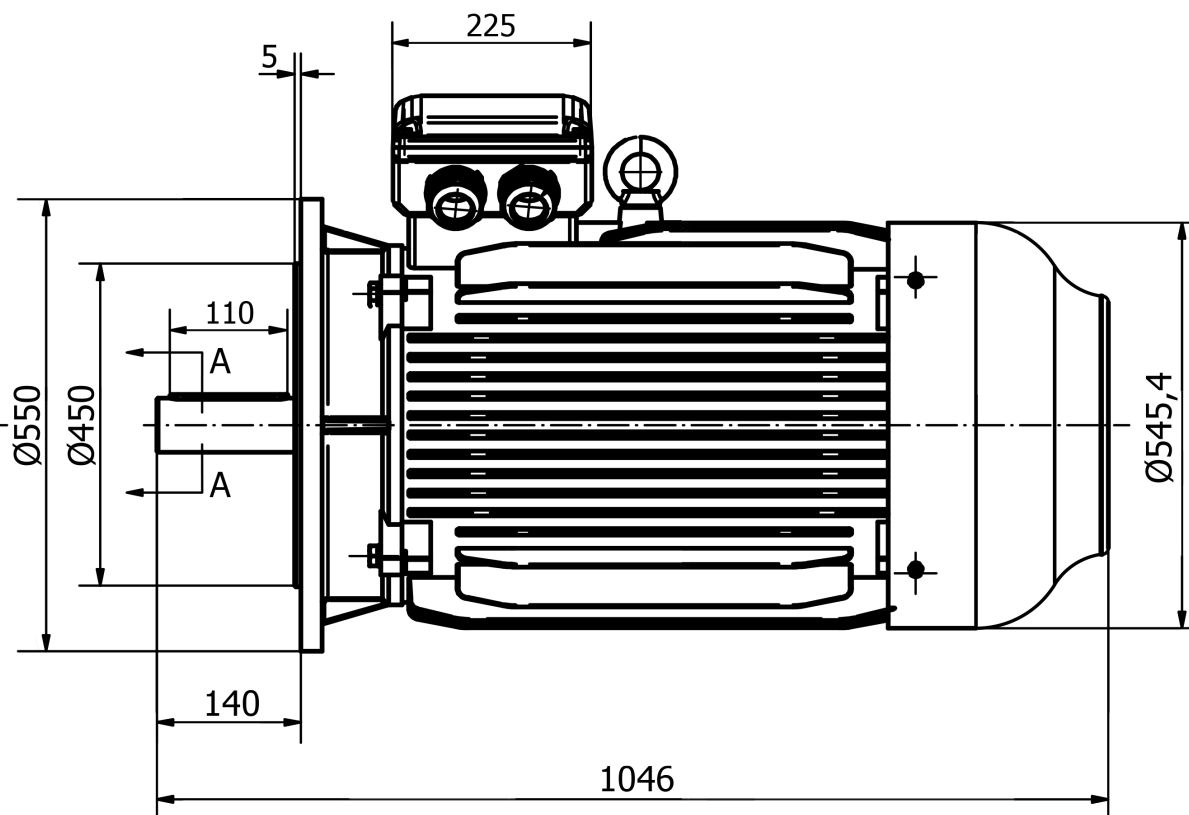
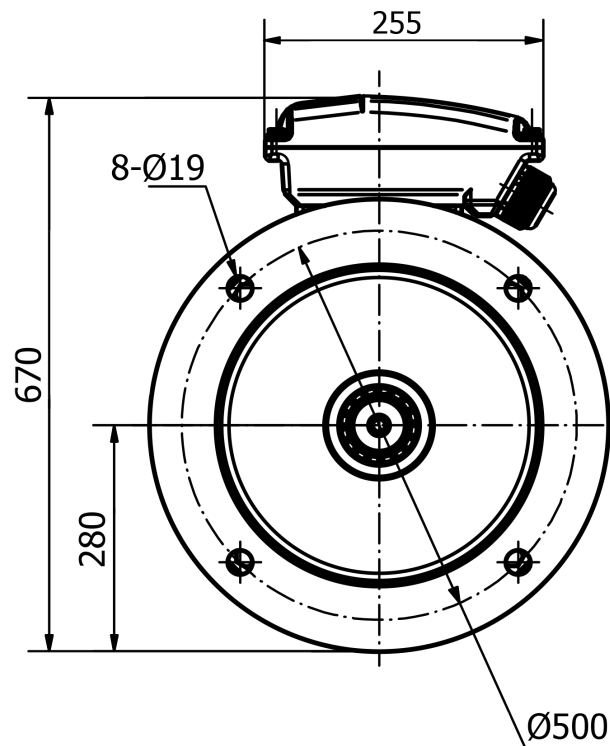
Low Voltage induction motors electric motors

HIGH EFFICIENCY

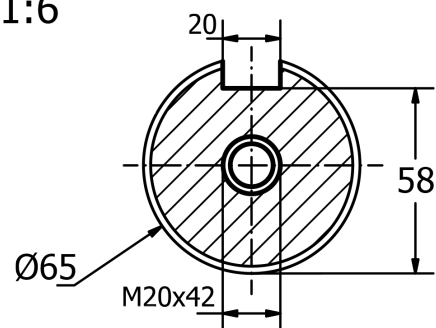
RELIABLE OPERATION

2 LOAD CLASSES

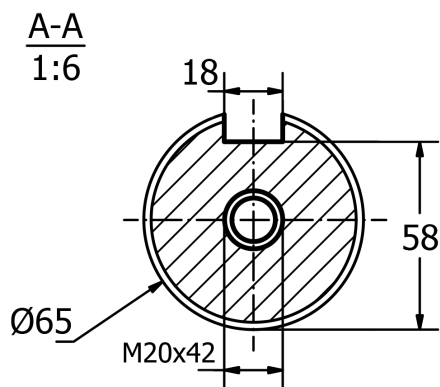
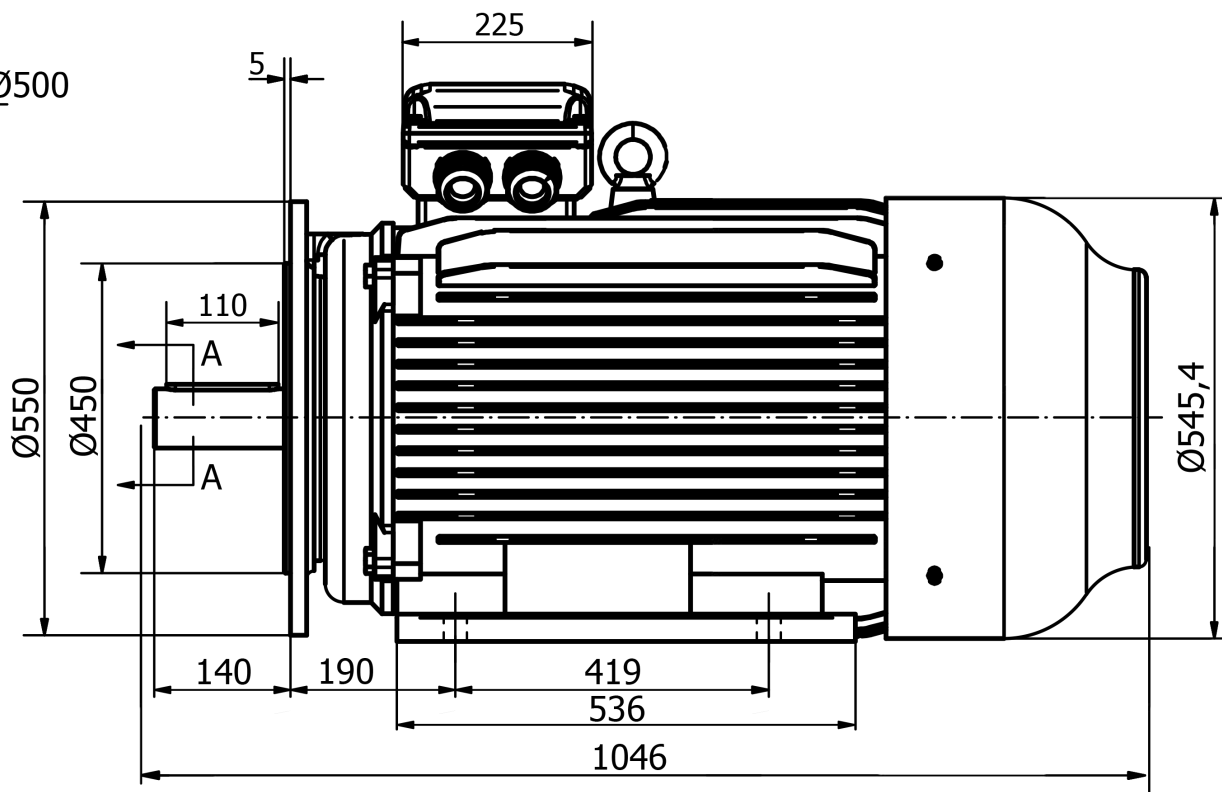
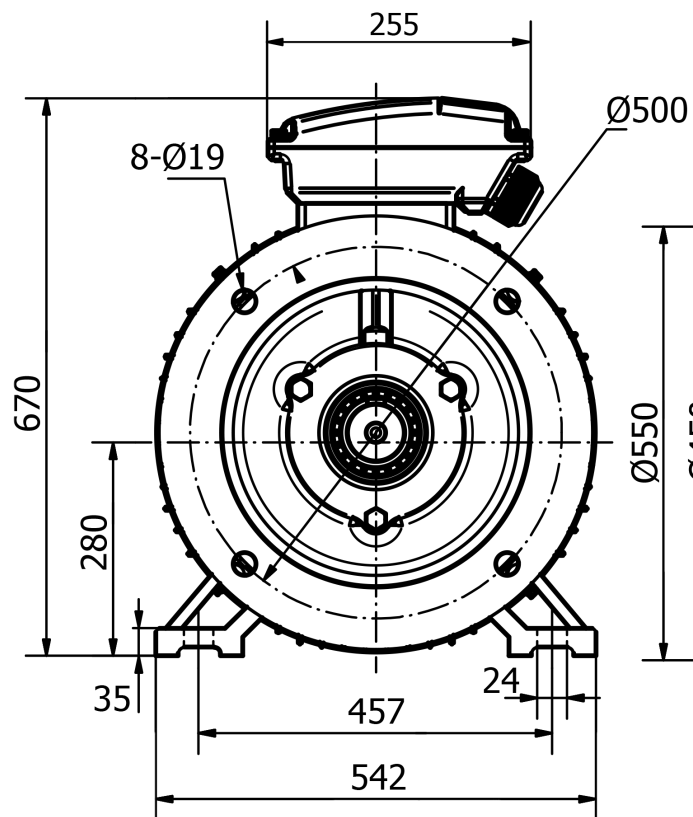




A-A
1:6



1 LC-280M-B5



1LC-280M-B35



| HIGH EFFICIENCY

| RELIABLE OPERATION

| 2 CLASSES OF LOADS

