



 PRODUCT-DETAILS

3GGP454520-AEK

Dust Ignition Proof IE3 LV Motors, 500 kW, 500 V (3GGP454520-AEK)



General Information

Product ID	3GGP454520-AEK
ABB Type Designation	M3GP 450LB 8
Catalog Description	Dust Ignition Proof IE3 LV Motors, 500 kW, 500 V (3GGP454520-AEK)

Ordering

ABB Type Designation	M3GP 450LB 8
Product Name	3-Phase squirrel cage motor
Product Type	3GP3_M3GP_IE3_CI
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Selling Unit of Measure	piece
Country of Origin	Finland (FI)
Customs Tariff Number	85015394
Medium Description	500kW, 8 Poles, Frame Size 450, 3 Phases, 500V, 50Hz, IP55 Enclosure, IMB3/IM1001 Mounting (3GGP454520-AEK)
Short Description	500kW, 8P, Frame Size 450, 3PH, 500V, 50Hz, IP55, IMB3/IM1001

Electrical

Electrical Data

Conn	Temp Class	Freq	Voltage	Power	Speed	Current	Power Factor	Efficiency	Torque	IS/IN
D	T3	50 Hz	500 V	500.00 kW	744 r/min	722.00 A	0.830	94.60 %	6417.00 N-m	6.40
D	T3	60 Hz	575 V	500.00 kW	895 r/min	630.00 A	0.820	95.00 %	5336.00 N-m	7.30

Connection Configuration	D
Temperature Class Default	T3
Input Voltage (U _{in})	500 V
Frequency (f)	50 Hz
Output Power	500 kW
Altitude	1000 m
Ambient Temperature	40 °C
IC Class	IC411
IE Class Data (50 Hz)	IE Class IE3 Full Load (100%) 94.6 % Partial Load (75%) 94.9 % Partial Load (50%) 94.6 %
IE Class Data (60 Hz)	IE Class IE3 Full Load (100%) 95.0 % Partial Load (75%) 95.0 % Partial Load (50%) 94.3 %
IP Class	IP55
Insulation Class	ICLF
Direction of Rotation	Both sides
Number of Poles (High)	8
Two Speed Motor	No
Type of Duty	S1
Voltage Code	E
EX-Protection	Exec
Gas Group	IIC

Mechanical

Frame Material	Cast Iron
Frame Size	450
Bearing	6326/C3
Bearing NDE	6322/C3
IM Class	IMB3 IM1001
Terminator Box Location	Top

Dimensions

Package Level 1 Units	0 pallet (lift)
Product Net Depth / Length	2187 mm
Product Net Height	1231 mm
Product Net Width	966 mm
Product Net Weight	4000 kg

Gross Weight 4040 kg

Environmental

WEEE Category 4. Large Equipment (Any External Dimension More Than 50 cm)

Classifications

UNSPSC 26101100

Categories

Motors and Generators → Motors and Generators for Explosive Atmospheres → Dust Ignition Proof Motors → Dust Ignition Proof IE3 LV Motors

