

19/03/2019

Qty. | Description

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CRIE 5-24 N-FGJ-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 99075984

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.

The pump is fitted with a 3-phase, fan-cooled, permanent-magnet, synchronous motor.

The motor efficiency is classified as IE5 in accordance with IEC 60034-30-2.

The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. An operating panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the operating panel provides visual indication of pump status:

- "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights)
- "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights)
- "Alarm": Motor has stopped (flashing red indicator lights).

Communication with the pump is possible by means of Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".

The terminal box has a number of inputs and outputs enabling the motor to be used in advanced applications where many inputs and outputs are required:

- two dedicated digital inputs
- three analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 3.5 V; the factory-fitted pressure sensor is connected to one of these inputs
- 5 V voltage supply to potentiometer and sensor
- one analog output, 0-10 V, 0(4)-20 mA
- two configurable digital inputs or open-collector outputs
- two Pt100/Pt1000 inputs
- LiqTec, dry-running protection sensor input
- Grundfos Digital Sensor input and output
- 24 V voltage supply for sensors
- two signal-relay outputs (potential-free contacts)
- GENIbus connection
- interface for Grundfos CIM fieldbus module.

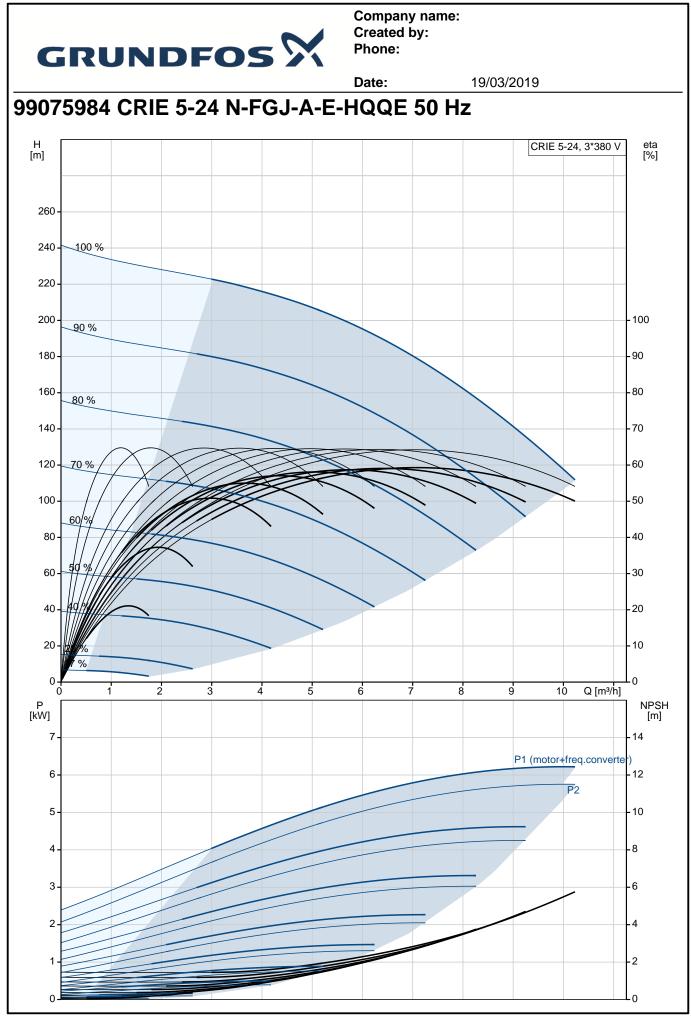
Controls:



DescriptionFrequency converter:Built-inPressure sensor:YLiquid temperature range:-20120 °CLiquid temperature range:-20120 °CLiquid temperature range:-20120 °CLiquid temperature range:-20120 °CLiquid temperature during operation:20 °CDensity:992 kg/m³Technical:Pump speed on which pump data are based:Pump speed on which pump data are based:3525 rpmRated head:183.6 mPump orientation:VerticalShaft seal arangement:SingleCode for shaft seal:HOQEApprovals on nameplate:EE, EAC, ACSCurve tolerance:ISO9906:2012 38Materials:Base:Base:Stainless steelEn 1 4408AISI 316Impeller:Stainless steelEn 1,4301AISI 304Bearing:SICInstallation:Maximum ambient temperature: 50 °CMaximum ambient temperature:50 °CMaximum ambient temperature:50 sr / 20 °CZize of intel connection:DIN / ANSI / JISSize of outlet connection:DIN / ANSI / JISSize of outlet connection:DN 25/3211/4 inchPressure rating for pipe connection:FP 25Flange rating inlet:300 lbFlange rating inlet:300 lbFlange rating inlet:313SFLife Efficiency5 Sr 43Motor standard:IECMotor standard:IEC<	Description			
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Bearing:SICInstallation:50 °CMaximum ambient temperature:50 °CMaximum operating pressure:25 barMax pressure at stated temp:25 bar / 120 °C25 bar / -20 °C7ype of connection:DIN / ANSI / JISSize of inlet connection:DN 25/321 1/4 inchSize of outlet connection:DN 25/321 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor type:123SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:9.25%Motor efficiency at full load:92.5 %Motor efficiency at full load:92.5 %				
Installation: Maximum ambient temperature: 50 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 120 °C 25 bar / -20 °C 25 bar / -20 °C Type of connection: DIN / ANSI / JIS Size of inlet connection: DN 25/32 11/4 inch 11/4 inch Size of outlet connection: DN 25/32 11/4 inch 11/4 inch Pressure rating for pipe connection: PN 25 Flange rating inlet: 300 lb Flange size for motor: FF265 Electrical data: IEC Motor standard: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated voltage: 3 x 380-500 V Rated speed: 360-4000 rpm Efficiency: 9.25% Motor efficiency at full load: 92.5% Motor efficiency at full load: 92.5% Enclosure class (IEC 34-5): IP55				
Maximum ambient temperature: $50 °C$ Maximum operating pressure: $25 bar$ Max pressure at stated temp: $25 bar$ / 120 °C $25 bar$ / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/3211/4 inchSize of outlet connection:DN 25/3211/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor standard:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Bearing:	SIC		
Maximum ambient temperature: $50 ^\circ C$ Maximum operating pressure: $25 bar$ Max pressure at stated temp: $25 bar$ / $120 ^\circ C$ $25 bar$ / $-20 ^\circ C$ $25 bar$ / $-20 ^\circ C$ Type of connection:DIN / ANSI / JISSize of inlet connection:DN $25/32$ $11/4 inch$ Size of outlet connection:DN $25/32$ $11/4 inch$ Pressure rating for pipe connection:PN 25 Flange rating inlet: $300 lb$ Flange size for motor:FF265Electrical data:Motor standard:IECMotor standard:IE5Rated power - P2: $7.5 kW$ Power (P2) required by pump: $7.5 kW$ Power (P2) required by pump: $50 Hz$ Rated current: $41.111.2 A$ Cos phi - power factor: $0.93 - 0.89$ Rated speed: $360-4000 rpm$ Efficiency: 92.5% Motor efficiency at full load: 92.5%	Installation			
Maximum operating pressure:25 barMax pressure at stated temp:25 bar / 120 °C25 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/3211/4 inchSize of outlet connection:DN 25/3211/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Motor efficiency at full load:92.5 %		50 °C		
Max pressure at stated temp: $25 \text{ bar} / 120 ^{\circ}\text{C}$ $25 \text{ bar} / -20 ^{\circ}\text{C}$ Type of connection:DIN / ANSI / JISSize of inlet connection:DN 25/32 $1 1/4 \text{ inch}$ Size of outlet connection:DN 25/32 $1 1/4 \text{ inch}$ Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IEC 132 SFNotor type:132SFIE Efficiency class:IE5 $Rated power - P2$:7.5 kW Power (P2) required by pump:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
25 bar / -20 °CType of connection:DIN / ANSI / JISSize of inlet connection:DN 25/32 1 1/4 inchSize of outlet connection:DN 25/32 1 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IEC Notor type:132SFIE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWPower (P2) required by pump:7.5 kWRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %				
Type of connection:DIN / ANSI / JISSize of inlet connection:DN 25/32 11/4 inchSize of outlet connection:DN 25/32 11/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:IEC Motor type:Motor standard:IE5 Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %	Max pressure at stated temp:			
Size of inlet connection:DN 25/32 1 1/4 inchSize of outlet connection:DN 25/32 1 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated speed:360-4000 rpmEfficiency:92.5 %Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
1 1/4 inchSize of outlet connection:DN 25/32 1 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IEC Motor type:1 32SFIE5 Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %				
Size of outlet connection:DN 25/32 1 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265 Electrical data: Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Size of inlet connection:			
1 1/4 inchPressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF 265 Electrical data: Motor standard:IECMotor standard:IESRated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55		1 1/4 inch		
Pressure rating for pipe connection:PN 25Flange rating inlet:300 lbFlange size for motor:FF265 Electrical data: Motor standard:IECMotor standard:IESRated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5 %Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Size of outlet connection:	DN 25/32		
Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55		1 1/4 inch		
Flange rating inlet:300 lbFlange size for motor:FF265Electrical data:Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Pressure rating for pipe connect	on: PN 25		
Flange size for motor:FF265Electrical data:IECMotor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Electrical data:Motor standard:IECMotor type:132SFIE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Motor standard: IEC Motor type: 132SF IE Efficiency class: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 %	Thange size for motor.	11200		
Motor type: 132SF IE Efficiency class: IE5 Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55	Electrical data:			
IE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Motor standard:	IEC		
IE Efficiency class:IE5Rated power - P2:7.5 kWPower (P2) required by pump:7.5 kWMains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Motor type:	132SF		
Rated power - P2: 7.5 kW Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: $3 \times 380-500 \text{ V}$ Rated current: $14.1-11.2 \text{ A}$ Cos phi - power factor: $0.93-0.89$ Rated speed: $360-4000 \text{ rpm}$ Efficiency: 92.5% Motor efficiency at full load: 92.5% Enclosure class (IEC 34-5):IP55				
Power (P2) required by pump: 7.5 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-500 V Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55				
Mains frequency:50 HzRated voltage:3 x 380-500 VRated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Rated voltage: 3 x 380-500 V Rated current: 14.1-11.2 A Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55				
Rated current:14.1-11.2 ACos phi - power factor:0.93-0.89Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Cos phi - power factor: 0.93-0.89 Rated speed: 360-4000 rpm Efficiency: 92.5% Motor efficiency at full load: 92.5 % Enclosure class (IEC 34-5): IP55				
Rated speed:360-4000 rpmEfficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Efficiency:92.5%Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55				
Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Rated speed:	360-4000 rpm		
Motor efficiency at full load:92.5 %Enclosure class (IEC 34-5):IP55	Efficiency:	92.5%		
Enclosure class (IEC 34-5): IP55				
		F		



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			Date:	19/03/2019
у.	Description			
	Minimum efficiency index, MEI ≥ Net weight: 80.	: 0.57 .1 kg		
	Gross weight: 10	7 kg		
	Shipping volume: 0.4	188 m³		
	Country of origin: GE Custom tariff no.: 84	3 137075		



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		Date:	19/03/2019	
Description	Value	H [m]		CRIE 5-24, 3*380
General information:				
Product name:	CRIE 5-24 N-FGJ-A-E-HQQE	260 - 240 - 100 %		
Product No:	99075984			
EAN number:	5712606274604	220 -		
Price:	5.212,00 GBP	200 - 90 %		
Fechnical:	5.212,00 ODI	180 -		
Pump speed on which pump data are based:	3525 rpm	160 - <u>80 %</u> 140 -		
Rated flow:	6.9 m³/h			
Rated head:	183.6 m	120 - 70 %		1 A
Head max:	237.1 m	100 - ////		1.6.1
Stages:	24	80 - 60/%		
mpellers:	24		#	
Number of reduced-diameter impellers:	0	60 - 94		
Low NPSH:	N	40 - 40		
Pump orientation:	Vertical	20 - 25 %		
Shaft seal arrangement:	Single	7 %		
Code for shaft seal:	HQQE		2 3 4 5 6 7	8 9 Q [m³/
		P [kW]		
Approvals on nameplate:	CE, EAC,ACS	[kW]		
Curve tolerance:	ISO9906:2012 3B	6-		P1 (motor+freq.o
Pump version:	N			P2
Model:	A	5 -		
Materials:		4 -	///	
Base:	Stainless steel	3-		
	EN 1.4408			
	AISI 316	2-		
mpeller:	Stainless steel	1-		
	EN 1.4301	0		
	AISI 304	1		
Material code:	A		237	
Code for rubber:	E		254.9	
Bearing:	SIC	D		
nstallation:				
Maximum ambient temperature:	50 °C	~ ~		
Maximum operating pressure:	25 bar	300		
Maximum operating pressure. Max pressure at stated temp:	25 bar / 120 °C	<u></u>	/2 G 1/2	
	25 bar / -20 °C			
Type of connection:		S		11
Type of connection:	DIN / ANSI / JIS			
Size of inlet connection:	DN 25/32	15		101
	1 1/4 inch			
Size of outlet connection:	DN 25/32		150 250 180	4 x 13
	1 1/4 inch		210	
Pressure rating for pipe connection:	PN 25			
Flange rating inlet:	300 lb			
Flange size for motor:	FF265	A		
Connect code:	FGJ			
Liquid:		PE	 Ø⊕	
Pumped liquid:	Water			
Liquid temperature range:	-20 120 °C			
_iquid temperature during operation:	20 °C		11 GAD 11 GAD 11 GADCI	
Density:	998.2 kg/m ³		11 P100/1000 17 P100/1000 13 A0 4 GMD	
Electrical data:		······ • • • • • • • • • • • • • • • •		
Motor standard:	IEC		21 Lidfee 22 Lidfee 22 Lidfee	
Motor type:	132SF			
E Efficiency class:	IE5	r	V Landou V Bi Gilbetur B 31 Geb	
Rated power - P2:	7.5 kW			
Power (P2) required by pump:	7.5 kW			
Mains frequency:	50 Hz			

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		Da	ite:
Description	Value		
Rated voltage:	3 x 380-500 V		
Rated current:	14.1-11.2 A		
Cos phi - power factor:	0.93-0.89		
Rated speed:	360-4000 rpm		
Efficiency:	92.5%		
Motor efficiency at full load:	92.5 %		
Enclosure class (IEC 34-5):	IP55		
Insulation class (IEC 85):	F		
Motor protec:	YES		
Motor No:	98971052		
Controls:			
Control panel:	Standard		
Function Module:	FM300 - Advanced		
Frequency converter:	Built-in		
Pressure sensor:	Y		
Others:			
Minimum efficiency index, MEI ≥:	0.57		
Net weight:	80.1 kg		
Gross weight:	107 kg		
Shipping volume:	0.488 m ³		
Country of origin:	GB		
Custom tariff no.:	84137075		

