

Submittal Data

PROJECT:	 UNIT TAG:	 QUANTITY:	
	 TYPE OF SERVICE:		
REPRESENTATIVE:	 SUBMITTED BY:	 DATE:	
ENGINEER:	 APPROVED BY:	 DATE:	
CONTRACTOR:	 ORDER NO.:	 DATE:	

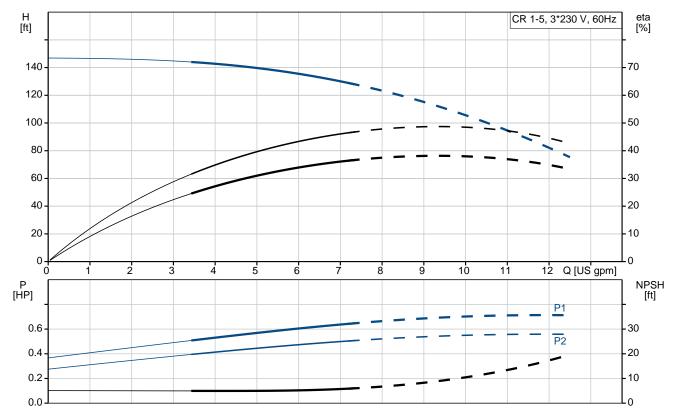


CR 1-5 A-B-A-V-HQQV

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron. All other wetted parts are in stainless steel (EN 1.4301)(AISI 304)

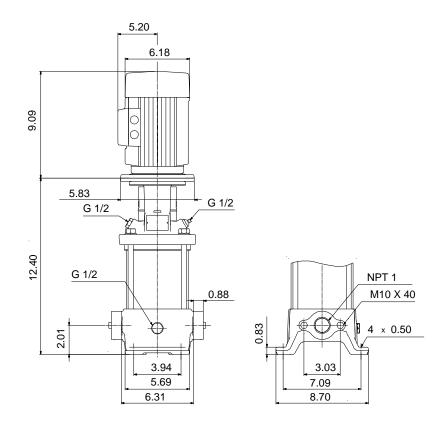
Product photo could vary from the actual product

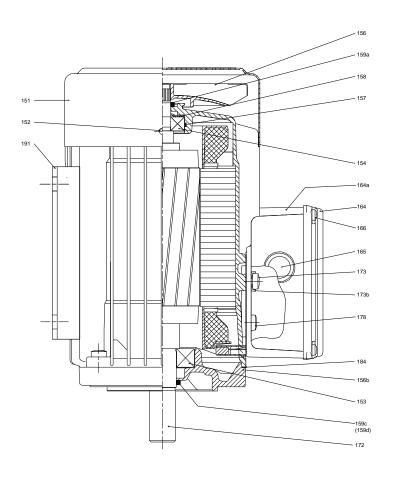
Conditions	of Service	Pump Data		Moto	or Data
Flow: Head:		Max pressure at stated temperature: Liquid temperature range:	232 psi / 194 °F -4 194 °F	Rated power - P2: Rated voltage:	0.5 HP 208-230YY/460Y V
Efficiency:	38.1 %	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz
Liquid:	Water	Approvals:	CURUS	Enclosure class:	55 Dust/Jetting
Temperature:	68 °F	Shaft seal:	HQQV	Insulation class:	F
NPSH required:	8.3 ft	Product number:	96082042	Motor protection:	NONE
Viscosity:				Motor type:	71AB
Specific Gravity:	1.000			Motor_efficiency:	78.9 %



Submittal Data







Base:

Impeller:

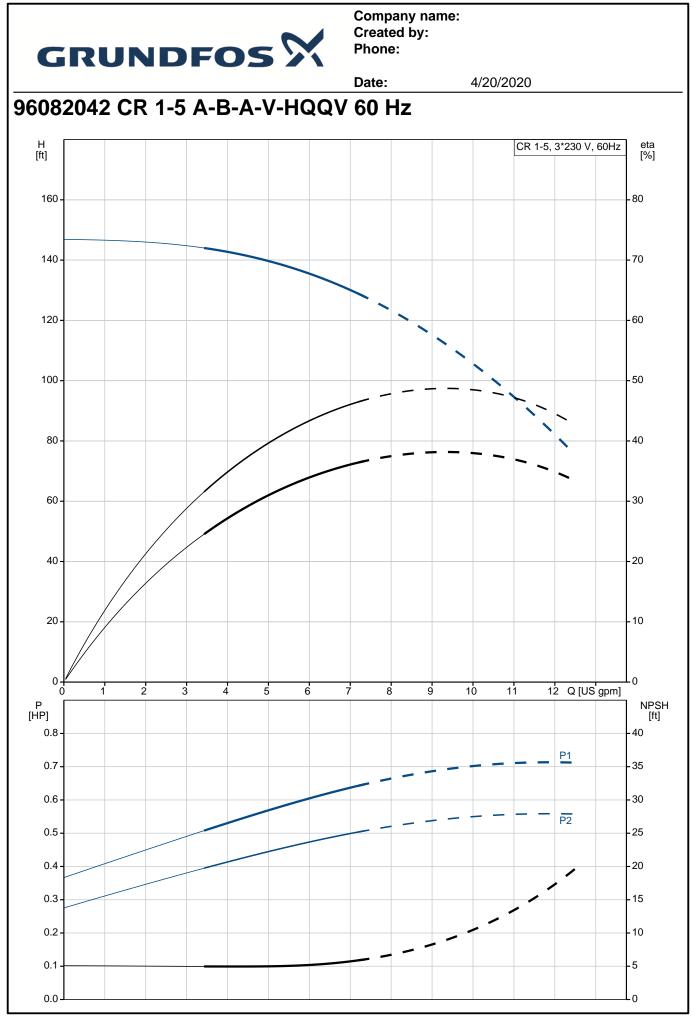
Material code: A Code for rubber: V

Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel AISI 304 EN 1.4301 A

Date: 420/2020 Count Description 1 CR 1-5 A-B-A-VHOQV Image: Cription Image: Cription Cription Image: Cription Cription Image: Cript	G	RUNDFO	sX	Company n Created by: Phone:	
1 CR 1-5 A-B-A-V-HQQV Image: Construction of the second of the				Date:	4/20/2020
Fonduct No: 96082042 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head a base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliat safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection via valid langes with internal NPT threads. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: Pumped liquid: Water Liquid temperature range: -4 194 °F Selected liquid temperature range: -4 194 °F Select liquid temperature range: -4	ount	Description			
Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head a base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliab safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connectic via oval flanges with internal NPT threads. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: Pumped liquid: Water Liquid temperature range: -4. 194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/fs Technical: Rated pump speed: Rated pump speed: 3485 rpm Rated flow: 9.69 US gpm Rated head: 106.3 ft Pump orientation: Vertical Shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: EN 1561 EN-GJL-200 AST MA48-25B Impeller: Impeller: Stailess steel EN 1561 EN-GJL-200 ASTM A48-25B Materials: SIG Base: Cast iron EN 14301 AISI 304 Bearing: SIC <tr< td=""><td>1</td><td>CR 1-5 A-B-A-V-HQQV</td><td></td><td></td><td></td></tr<>	1	CR 1-5 A-B-A-V-HQQV			
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base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliat safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connectio via oval flanges with internal NPT threads. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: Pumped liquid: Water Liquid temperature range: -4194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/t ^a Technical: Rated pump speed: 3485 rpm Rated flow: 9.69 US gpm Rated flow: 9.69 US gpm Rated flow: 9.69 US gpm Rated flow: 9.69 US gpm Rated seal: 106.3 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Cast iron EN 1661 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum ambient temperature: 232.06 psi Max pressure at stated temperature: 232.06 jpi Max pressure rating for connection: Oval / NPT(F) Size of outclet port: 1 inch Pressure rating for connection: 56C		Product No.: 96082042			
Liquid:WaterPumped liquid:WaterLiquid temperature:60 °FSelected liquid temperature:60 °FDensity:62.29 lb/ft ⁹ Technical:Rated pump speed:Rated pump speed:3485 rpmRated head:106.3 ftPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQVApprovals on nameplate:CURUSCurve tolerance:ISO906:2012 3BMaterials:Base:Base:Cast ironEnsity:Stainless steelEnvironASTM A48-25BImpeller:Stainless steelEnvironAISI 304Bearing:SICInstallation:Val °FMaximum ambient temperature:104 °FMaximum operating pressure:232.06 psiMax pressure at stated temperature:232.06 psiMax pressure at stated temperature:232.06 jsiMax pressure at stated temperature:232.06 jsiMax pressure at stated temperature:232.06 jsiMax pressure rating for connection:Oval / NPT(F)Size of suction port:1 inchSize of suction port:1 inchPressure rating for connection:FiPressure rating for connection:PNI6Flange size for motor:56CElectrical data:Electrical data:		base are in cast iron – all other v safe handling, and easy access	wetted parts are in and service. Powe	stainless steel.	A cartridge shaft seal ensures high reliability.
Punped liquid:WaterLiquid temperature range:-4194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Technical:Rated pump speed:3485 rpmRated flow:9.69 US gpmRated head:106.3 ftPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQVApprovals on nameplate:CURUSCurve tolerance:ISO9906:2012 3BMaterials:Base:Base:Cast ironEN 1561 EN-GJL-200ASTM A48-25BImpeller:Stainless steelEN 1.4301AISI 304Bearing:SICInstallation:Maximum operating pressure:Maximum operating pressure:232.06 psiMax pressure at stated temperature:104 °FSize of suction port:1 inchSize of suction port:1 inchPressure rating for connection:Poul / NPT(F)Size of suction port:1 inchPressure rating for connection:PN 16Flange size for motor:56CElectrical data:		The pump is fitted with a 3-phas	e, fan-cooled asyr	nchronous motor	
Pumped liquid:WaterLiquid temperature range:-4194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Technical:Rated pump speed:3485 rpmRated flow:9.69 US gpmRated head:106.3 ftPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQVApprovals on nameplate:CURUSCurve tolerance:ISO9906:2012 3BMaterials:Base:Base:Cast ironEN 1561 EN-GJL-200ASTM A48-25BImpeller:Stainless steelImpeller:SicInstallation:Maximum ambient temperature:104 °FMaximum operating pressure:232 psi / 194 °F232 psi / 4 °FType of connection:Oval / NPT(F)Size of suction port:1 inchSize of outlet port:1 inchPressure rating for connection:Pval / 104 °FFuges size for motor:56CElectrical data:					
Liquid temperature range: -4 194 °F Selected liquid temperature: $68 °F$ Density: $62 .29 lb/t^3$ Technical: Rated pump speed: 3485 rpm Rated flow: 9.69 US gpm Rated head: 106.3 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / 194 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Size of notor: 56C Electrical data:			\A/atan		
Selected liquid temperature: 68 °F Density: 62.29 lb/ft ⁹ Technical: Rated pump speed: 3485 rpm Rated flow: 9.69 US gpm Rated flow: 9.69 US gpm Rated head: 106.3 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISOS906:2012 3B Materials: Base: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232 psi / 144 °F 22 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:					
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Technical: Rated pump speed: 3485 rpm Rated flow: 9.69 US gpm Rated flow: 9.69 US gpm Rated head: 106.3 ft Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum operating pressure: 232 psi / 4°F Z32 psi / 4°F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C		· ·			
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Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: EN 1561 EN-GJL-200 Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of outlet port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:					
Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1,4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:					
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EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:			-		
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EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:					
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Bearing: SIC Installation: Maximum ambient temperature: 104 °F Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:					
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Maximum operating pressure: 232.06 psi Max pressure at stated temperature: 232 psi / 194 °F 232 psi / -4 °F Type of connection: Oval / NPT(F) Size of suction port: 1 inch Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data:					
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Type of connection:Oval / NPT(F)Size of suction port:1 inchSize of outlet port:1 inchPressure rating for connection:PN 16Flange size for motor:56CElectrical data:		iviax pressure at stated tempera			
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Size of outlet port: 1 inch Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: Electrical data:			• •		
Pressure rating for connection: PN 16 Flange size for motor: 56C Electrical data: 56C					
Flange size for motor: 56C Electrical data:					
Electrical data:					
		Flange size for motor:	56C		
		Electrical data:			
	I	Motor standard:	NEMA		
Motor type: 71AB					



Description		
IE Efficiency class:	NEMA Premium / IE3 60Hz	
Rated power - P2:	0.5 HP	
Power (P2) required by pump:	0.5 HP	
Main frequency:	60 Hz	
Rated voltage:	3 x 208-230YY/460Y V	
Service factor:	1.25	
Rated current:	1,64-1,55/0,78 A	
Starting current:	590-650 %	
Cos phi - power factor:	0.84-0.78	
Rated speed:	3430-3460 rpm	
Motor efficiency at full load:	78.9 %	
Motor efficiency at 3/4 load:	79.2 %	
Motor efficiency at 1/2 load:	76.3 %	
Number of poles:		
	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Motor Number:	85900701	
Controls:		
Frequency converter:	NONE	
Others:		
Net weight:	48 lb	
Gross weight:	59 lb	
	4.94 ft ³	
Shipping volume:		
Country of origin: Custom tariff no.:	US 8413.70.2040	



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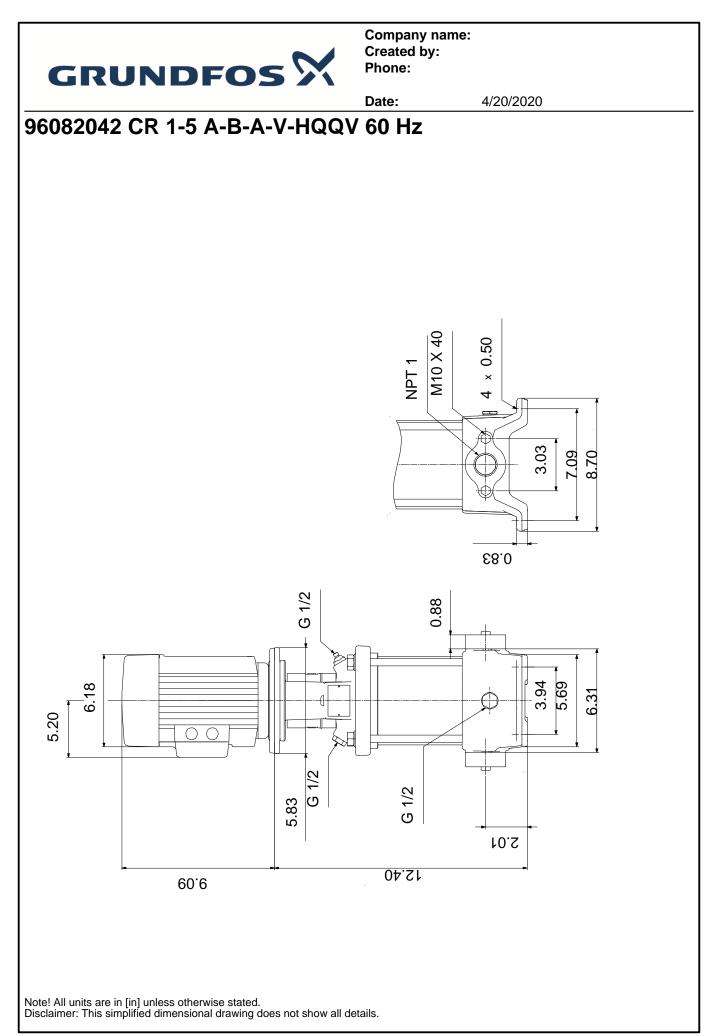


		Date:	4/20/202	20
Description	Value	H [ft]		CR 1-5, 3*230 V, 60Hz [%
General information:		160 -		- 80
Product name:	CR 1-5 A-B-A-V-HQQV	100 -		
Product No.:	96082042			
EAN:	5700395167801	140 -		- 70
E/	5700395167801			
Technical:	5700595107801	120 -		- 60
	2405			
Rated pump speed:	3485 rpm	100 -		50
Rated flow:	9.69 US gpm			
Rated head:	106.3 ft	80 -		- 40
Maximum head:	144.7 ft	00		\ [\]
Stages:	5			•
Impellers:	5	60 -		- 30
Number of reduced-diameter impellers	: 0			
	0	40-		- 20
Low NPSH:	Ν			
Pump orientation:	Vertical	20 - //		10
Shaft seal arrangement:	Single			
Code for shaft seal:	HQQV	۰		0
Approvals on nameplate:	CURUS	0 2	4 6	8 10 Q [US gpm]
Curve tolerance:	ISO9906:2012 3B	P [HP]		NF
Pump version:	A			P1
		0.7 -		- 35
Model: Cooling:	A TEFC	0.6 -		- 30
	TEFC	0.5 -		P2 - 25
Materials:		0.4		20
Base:	Cast iron	0.3		15
	EN 1561 EN-GJL-200	0.2		10
	ASTM A48-25B			
Impeller:	Stainless steel	0.1		-5
	EN 1.4301	0.0		0
	AISI 304	۹		
Material code:	A	Γ	5.20 6.18	
Code for rubber:	V	-		
Bearing:	SIC			
Installation:		60'6		
Maximum ambient temperature:	104 °F		dill.	
Maximum operating pressure:	232.06 psi	_5.83	G 1/2	
Max pressure at stated temperature:	232 psi / 194 °F	<u>G 1/2</u>	G 1/2	
	232 psi / -4 °F	· [
Tune of connection.		94 21 <u>G 1/2</u>		NPT 1
Type of connection:	Oval / NPT(F)		0.88	M10 X 40
Size of suction port:	1 inch			4 × 0.50
Size of outlet port:	1 inch	5	3.94	3.03
Pressure rating for connection:	PN 16		<u>3.94</u> <u>5.69</u> 6.31	<u>7.09</u> 8.70
Flange size for motor:	56C			0.10
Connect code:	В			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-4 194 °F		WARNING	
Selected liquid temperature:	68 °F	MOTOR MUST BE GRO	DUNDED IN ACCORDANCE	
Density:	62.29 lb/ft ³	WITH THE NATIONAL LOCAL CODES BY TRA PREVENT SERIOUS E	ELECTRICAL CODE AND AINED PERSONNEL TO LECTRICAL SHOCKS	
Electrical data:	-	TO SERVICE MOTOR,	DISCONNECT POWER	
Motor standard:	NEMA	SOURCE FROM MOTO DEVICES AND ALLOW	IR AND ANY ACCESSORY MOTOR TO COME TO A	
Motor type:	71AB	COMPLETE STAND ST LOW VOLTAGE	HIGH VOLTAGE	
		60Hz. 208-230V	60Hz: 460V 50Hz: 400V 6● 5● 4●	
IE Efficiency class:	NEMA Premium / IE3 60Hz	9 8 7 3 2 1	9● 8● 7● 3● 2● 1●	
Rated power - P2:	0.5 HP			
Power (P2) required by pump:	0.5 HP		CHANGE ANY TWO LINE	
Main frequency:	60 Hz	THE	ITO BEVERSE BOTATION MOSTAT LEADS	
Rated voltage:	3 x 208-230YY/460Y V			

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		Date:	4/20/2020	
Description	Value			
Rated current:	1,64-1,55/0,78 A			
Starting current:	590-650 %			
Load current:	2,0-1,9/0,95 A			
Cos phi - power factor:	0.84-0.78			
Rated speed:	3430-3460 rpm			
Motor efficiency at full load:	78.9 %			
Motor efficiency at 3/4 load:	79.2 %			
Motor efficiency at 1/2 load:	76.3 %			
Number of poles:	2			
Enclosure class (IEC 34-5):	55 Dust/Jetting			
Insulation class (IEC 85):	F			
Motor protection:	NONE			
Motor Number:	85900701			
Controls:				
Frequency converter:	NONE			
Others:				
Net weight:	48 lb			
Gross weight:	59 lb			
Shipping volume:	4.94 ft ³			
Country of origin:	US			
Custom tariff no.:	8413.70.2040			





4/20/2020

96082042 CR 1-5 A-B-A-V-HQQV 60 Hz

