

## Submittal Data

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

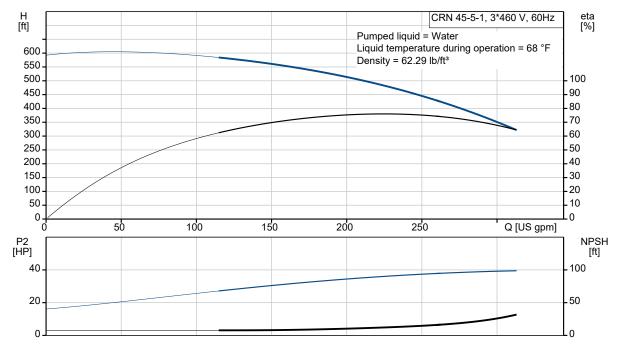


## CRN 45-5-1 A-G-A-E-HQQE

Vertical, multistage centrifugal pump with suction and discharge ports on same the level. Pump materials in contact with the liquid are in high-grade stainless steel (EN 1.4401) (AISI 316)

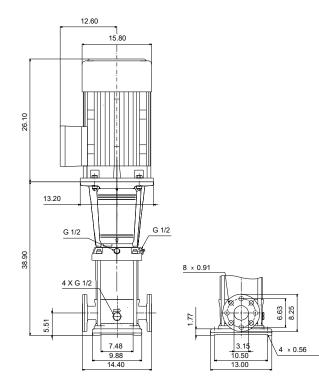
Product photo could vary from the actual product

Conditions of Service		Pump Data	Pump Data		Motor Data	
Efficiency:		Max pressure at stated temperature:	435 psi / 250 °F	Rated power - P2:	40 HP	
Liquid:	Water	Liquid temperature range:	-40 248 °F	Rated voltage:	208-230/460 V	
Temperature:	68 °F	Maximum ambient temperature:	104 °F	Main frequency:	60 Hz	
NPSH required:	ft	Shaft seal:	HQQE	Enclosure class:	IP55	
Specific Gravity:	1.000	Product number:	99918215	Insulation class:	F	
				Motor protection:	NONE	
				Motor type:	WEG	
				Eff. 1/1:	92.4 %	





## Submittal Data

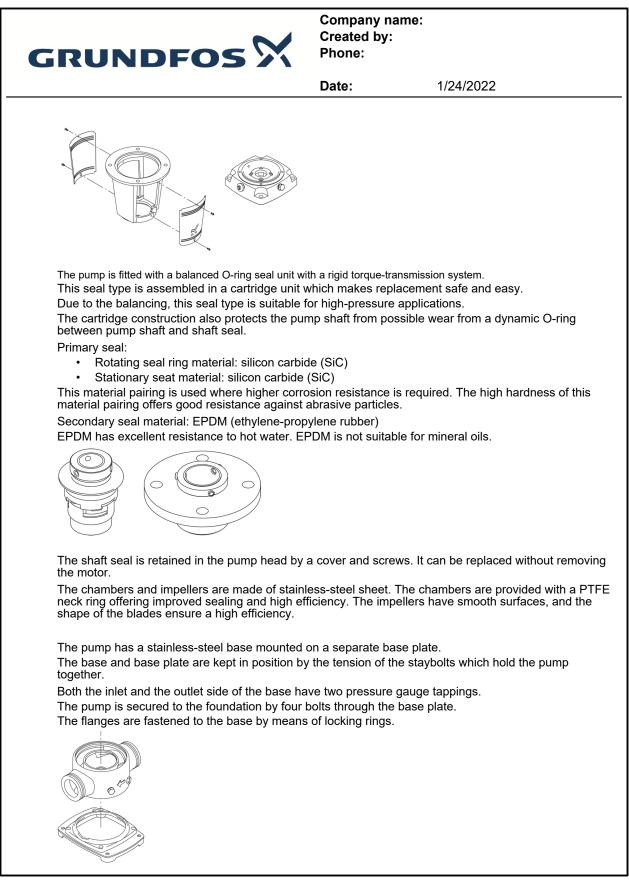


## Materials:

Base:	Stainless steel
Base:	EN 1.4408
Base:	AISI 316
Impeller:	Stainless steel
Impeller:	AISI 316
Impeller:	EN 1.4401
Material code:	A
Code for rubber:	E



	Da	ate:	1/24/2022
Count	Description		
1	CRN 45-5-1 A-G-A-E-HQQE		
	Product No.: 99918215		
	Vertical, multistage centrifugal pump with inlet and o in contact with the liquid are in high-grade stainless safe handling, and easy access and service. Power connection is via ANSI flanges.	steel. A cartridge sh	aft seal ensures high reliability,
	The pump is fitted with a 3-phase, fan-cooled asyncl	nronous motor.	
	<b>Further product details</b> Steel, cast iron and aluminium components have an electro-deposition (CED) process.	epoxy-based coatir	ng made in a cathodic
	CED is a high-quality dip-painting process where an deposition of paint particles as a thin, well-controlled	electrical field arou l layer on the surfac	nd the products ensures e.
	An integral part of the process is a pretreatment. The entire process consists of these elements:		
	<ol> <li>Alkaline-based cleaning.</li> <li>Zinc phosphating.</li> </ol>		
	<ul><li>3) Cathodic electro-deposition.</li><li>4) Curing to a dry film thickness 18-22 my m.</li></ul>		
	The colour code for the finished product is NCS 900	0/RAL 9005.	
	Pump		
	A long split coupling connects the pump and motor s two coupling guards. The long coupling makes it pos motor from the pump.	haft. It is enclosed is sible to replace the	n the motor stool by means of shaft seal without removing the
	The motor stool connects the pump head and motor and vent screw.	. The pump head ha	as a combined 1/2" priming plug



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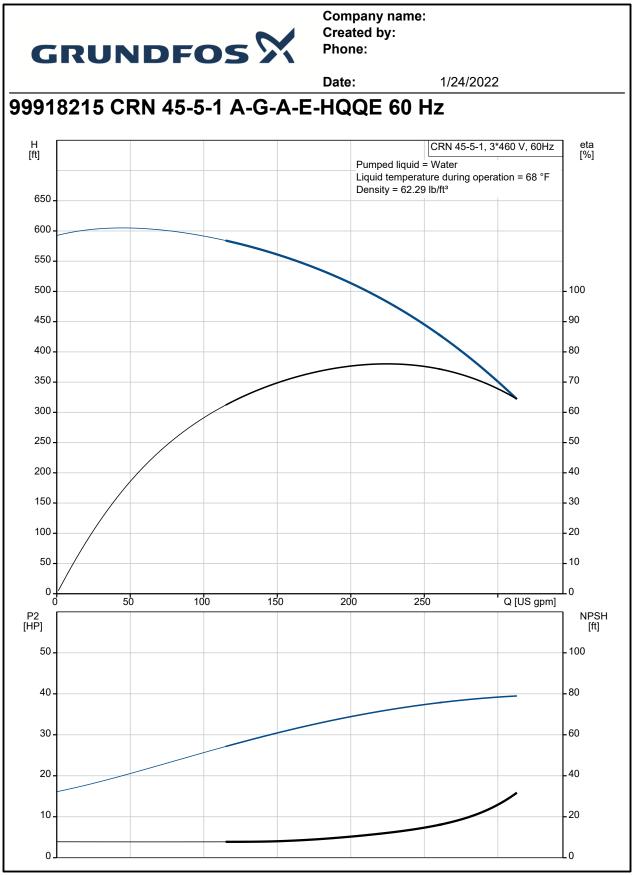


		Date: 1/24/2022	
nt	Description		
	Motor		
	The motor is a totally enclosed. The motor is flange-mounted w	fan-cooled motor with principal dimensions to IEC and DIN standar th free-hole flange (FF).	ds.
	Motor-mounting designation in Electrical tolerances comply wi	accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II). h IEC 60034.	
		d as premium efficiency in accordance with EISA2007.	
		motor protection and must be connected to a motor-protective circu reset. The motor-protective circuit breaker must be set according to	
	The motor can be connected to point. Grundfos CUE offers a ra Product Center.	a variable speed drive for adjustment of pump performance to any nge of variable speed drives. Please find more information in Grund	dut dfos
	Technical data		
	Liquid		
	Liquid: Pumped liquid:	Water	
	Liquid temperature range:	-40 248 °F	
	Selected liquid temperature:	-40246 F 68 °F	
	Density:	62.29 lb/ft <sup>3</sup>	
	Technical:		
	Rated pump speed:	3525 rpm	
	Rated flow:	238 US gpm	
	Rated head:	461.6 ft	
	Actual impeller diameter:	5.34 in	
	Pump orientation:	Vertical	
	Shaft seal arrangement:	Single	
	Code for shaft seal:	HQQE	
	Approvals:	CURUS	
	Approvals for drinking water:	NSF/ANSI 61	
	Curve tolerance:	ISO9906:2012 3B	
	Materials: Base:	Stainless steel	
		EN 1.4408	
		AISI 316	
	Impeller:	Stainless steel	
		EN 1.4401	
		AISI 316	
	Bearing:	SIC	
	Support bearing:	Graflon	
	Installation:		
	t max amb:	104 °F	
	Maximum operating pressure: Max pressure at stated tempera	435.11 psi ature: 435 psi / 250 °F 435 psi / -40 °F	
	Type of connection:	ANSI	
	Size of suction port:	3 inch	

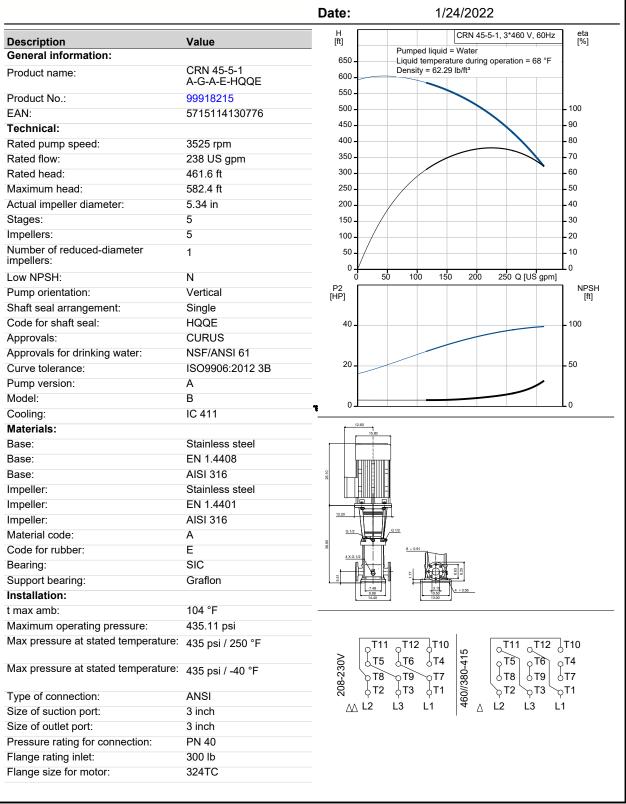
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		Date:	1/24/2022
unt	Description		
	Size of outlet port:	3 inch	
	Pressure rating for connection:	PN 40	
	Flange rating inlet:	300 lb	
	Flange size for motor:	324TC	
	Electrical data:		
	Motor standard:	NEMA	
	Motor type:	WEG	
	IE Efficiency class:	IE3 / NEMA Premium	
	Rated power - P2:	40 HP	
	Power (P2) required by pump:	40 HP	
	Main frequency:	60 Hz	
	Rated voltage:	3 x 208-230/460 V	
	Service factor:	1.25	
	Rated current:	101-92,6/46,3 A	
	Starting current:	630-630 %	
	Cos phi - power factor:	0.88	
	Rated speed:	3560 rpm	
	IE efficiency:	IE3 92,4%	
	Motor efficiency at full load:	92.4 %	
	Motor efficiency at 3/4 load:	92.4 %	
	Motor efficiency at 1/2 load:	91.7 %	
	Number of poles:	2	
	Enclosure class (IEC 34-5):	IP55	
	Insulation class (IEC 85):	F	
	Motor Number:	99883251	
	Controls:		
	Frequency converter:	NONE	
	Others:	0.00	
	DOE Pump Energy Index CL:	0.89	
	Net weight:	746 lb	
	Gross weight:	764 lb	
	Shipping volume:	39.9 ft <sup>3</sup>	
	Country of origin:	US	
	Custom tariff no.:	8413.70.2040	



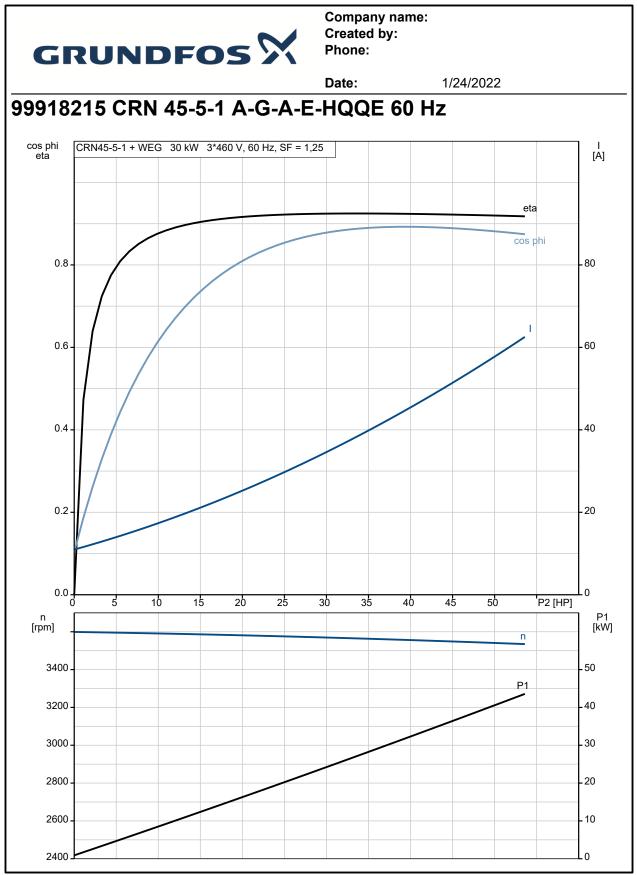




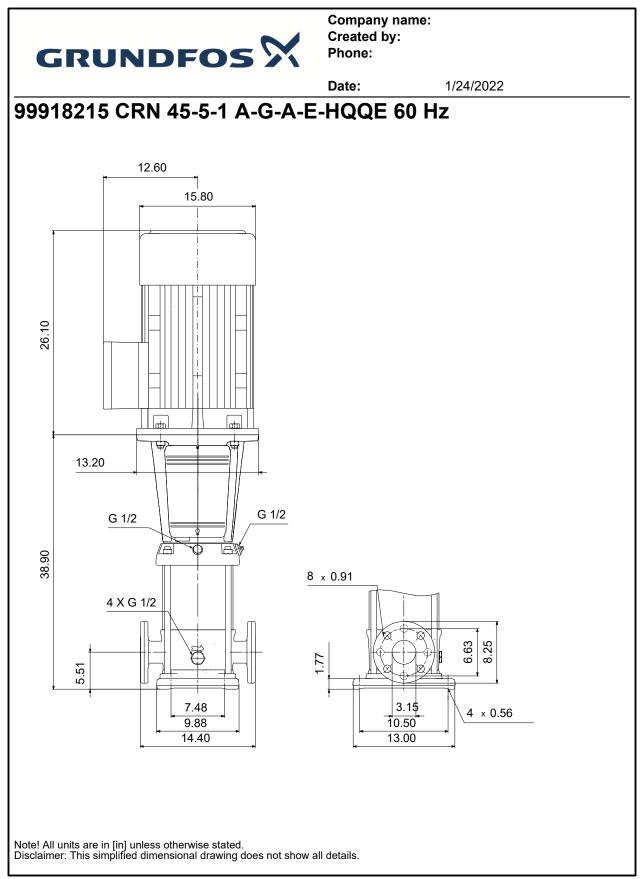
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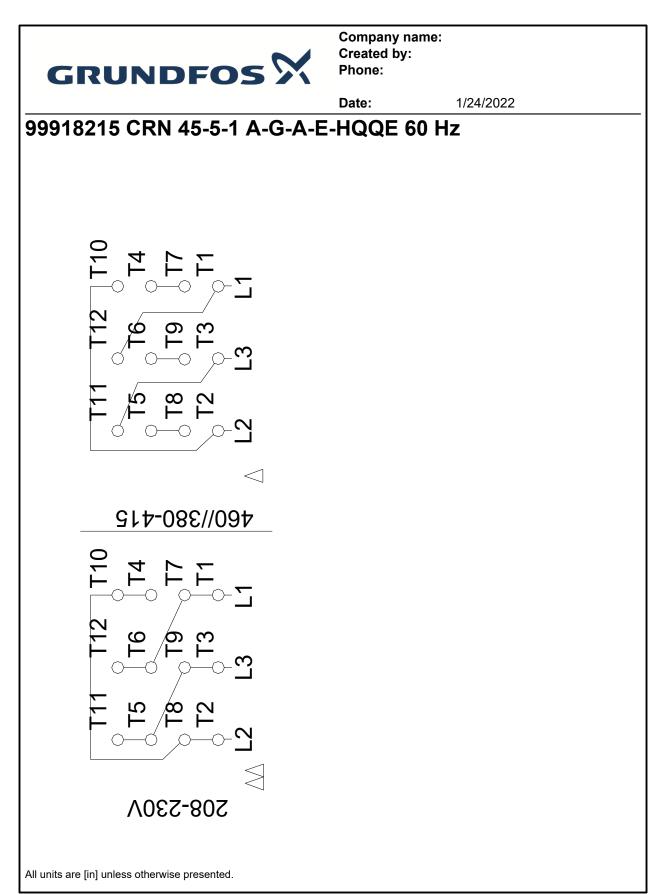


DescriptionValueConnect code:GLiquid:Pumped liquid:WaterLiquid temperature range:-40248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:Motor standard:NEMAMotor type:WEGIE Efficiency class:IE3 / NEMA PremiumRated power - P2:40 HPPower (P2) required by pump:40 HPMain frequency:60 HzRated voltage:3 x 208-230/460 VService factor:1.25Rated current:101-92,6/46,3 AStarting current:630-630 %Full load SF current:116/57.9 ACos phi - power factor:0.88Rated speed:3560 rpmIE efficiency at full load:92.4 %Motor Stice cass (IEC 34-5):IP55Insulation class (IEC 68):FBuilt-in motor protection:NONEMotor Number:99883251Controls:FBuilt-in motor protection:NONEMotor Number:9289251Controls:FFrequu			Date:	1/24/2022
Liquid:WaterPumped liquid:WaterLiquid temperature range:-40 248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:Motor standard:NEMAMotor type:WEGIE Efficiency class:IE3 / NEMA PremiumRated power - P2:40 HPPower (P2) required by pump:40 HPMain frequency:60 HzRated voltage:3 x 208-230/460 VService factor:1.25Rated urrent:101-92,6/46,3 AStarting current:630-630 %Full load SF current:116/57.9 ACos phi - power factor:0.88Rated speed:3560 rpmIE efficiency at 1/l load:92.4 %Motor efficiency at 1/l load:92.4 %Motor efficiency at 1/l load:92.4 %Motor efficiency at 1/l load:91.7 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:NONEMotor Number:99883251Controls:FFrequency converter:NONEOthers:DCP Pump Energy Index CL:OSP Pump Energy Index CL:0.89Net weight:746 lb	Description	Value		
Pumped liquid: Water Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft³ <b>Electrical data:</b> Motor standard: NEMA Motor type: WEG IE Efficiency class: IE3 / NEMA Premium Rated power - P2: 40 HP Power (P2) required by pump: 40 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230/460 V Service factor: 1.25 Rated voltage: 3 x 208-230/460 V Service factor: 1.25 Rated current: 101-92,6/46,3 A Starting current: 630-630 % Full load SF current: 116/57.9 A Cos phi - power factor: 0.88 Rated speed: 3560 rpm IE efficiency at 1/2 load: 92.4 % Motor efficiency at 1/2 load: 91.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): F Built-in motor protection: NONE Motor Number: 99883251 <b>Controls:</b> Frequency converter: NONE <b>Others:</b> DCP Pump Energy Index CL: 0.89 Net weight: 746 lb	Connect code:	G		
Liquid temperature range: -40 248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft <sup>3</sup> Electrical data: Motor standard: NEMA Motor type: WEG IE Efficiency class: IE3 / NEMA Premium Rated power - P2: 40 HP Power (P2) required by pump: 40 HP Main frequency: 60 Hz Rated voltage: 3 x 208-230/460 V Service factor: 1.25 Rated voltage: 3 x 208-230/460 V Service factor: 1.25 Rated current: 630-630 % Full load SF current: 116/57.9 A Cos phi - power factor: 0.88 Rated speed: 3560 rpm IE efficiency at J/l load: 92.4 % Motor efficiency at J/l load: 91.7 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): F Built-in motor protection: NONE Motor Number: 99883251 Controls: Frequency converter: NONE Others: DOE Pump Energy Index CL: 0.89 Net weight: 746 lb	Liquid:			
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Motor standard:NEMAMotor type:WEGIE Efficiency class:IE3 / NEMA PremiumRated power - P2:40 HPPower (P2) required by pump:40 HPMain frequency:60 HzRated voltage:3 x 208-230/460 VService factor:1.25Rated current:101-92,6/46,3 AStarting current:630-630 %Full load SF current:116/57.9 ACos phi - power factor:0.88Rated speed:3560 rpmIE efficiency:IE3 92,4%Motor efficiency at full load:92.4 %Motor efficiency at 1/2 load:91.7 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:NONEMotor Number:99833251Controls:Frequency converter:Prequency converter:NONEDOE Pump Energy Index CL:0.89Net weight:746 lb	Density:	62.29 lb/ft <sup>3</sup>		
Motor type:WEGIE Efficiency class:IE3 / NEMA PremiumRated power - P2:40 HPPower (P2) required by pump:40 HPMain frequency:60 HzRated voltage:3 x 208-230/460 VService factor:1.25Rated current:101-92,6/46,3 AStarting current:630-630 %Full load SF current:116/57.9 ACos phi - power factor:0.88Rated speed:3560 rpmIE efficiency:IE3 92,4%Motor efficiency at full load:92.4 %Motor efficiency at 1/2 load:91.7 %Number of poles:2Enclosure class (IEC 34-5):IP55Insult-in motor protection:NONEMotor Number:99883251Controls:Frequency converter:Frequency converter:NONEDOE Pump Energy Index CL:0.89Net weight:746 lb	Electrical data:			
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Power (P2) required by pump:       40 HP         Main frequency:       60 Hz         Rated voltage:       3 x 208-230/460 V         Service factor:       1.25         Rated current:       101-92,6/46,3 A         Starting current:       630-630 %         Full load SF current:       116/57.9 A         Cos phi - power factor:       0.88         Rated speed:       3560 rpm         IE efficiency:       IE3 92,4%         Motor efficiency at full load:       92.4 %         Motor efficiency at 1/2 load:       91.7 %         Number of poles:       2         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       NONE         Motor Number:       99883251         Controls:       F         Frequency converter:       NONE         OE Pump Energy Index CL:       0.89         Net weight:       746 lb	IE Efficiency class:	IE3 / NEMA Premium		
Main frequency:60 HzRated voltage:3 x 208-230/460 VService factor:1.25Rated current:101-92,6/46,3 AStarting current:630-630 %Full load SF current:116/57.9 ACos phi - power factor:0.88Rated speed:3560 rpmIE efficiency:IE3 92,4%Motor efficiency at full load:92.4 %Motor efficiency at 3/4 load:92.4 %Motor efficiency at 1/2 load:91.7 %Number of poles:2Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:NONEMotor Number:99883251Controls:FFrequency converter:NONEOthers:0.89DOE Pump Energy Index CL:0.89Net weight:746 lb	Rated power - P2:	40 HP		
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Insulation class (IEC 85): F Built-in motor protection: NONE Motor Number: 99883251 Controls: Frequency converter: NONE Others: DOE Pump Energy Index CL: 0.89 Net weight: 746 lb	-	2		
Insulation class (IEC 85):FBuilt-in motor protection:NONEMotor Number:99883251Controls:Frequency converter:Frequency converter:NONEOthers:0.89DOE Pump Energy Index CL:0.89Net weight:746 lb	Enclosure class (IEC 34-5):	IP55		
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Motor Number:99883251Controls:Prequency converter:NONEOthers:Others:DOE Pump Energy Index CL:0.89Net weight:746 lb	· ,			
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Others:         DOE Pump Energy Index CL:       0.89         Net weight:       746 lb	Controls:			
Others:DOE Pump Energy Index CL:0.89Net weight:746 lb	Frequency converter:	NONE		
Net weight: 746 lb				
Net weight: 746 lb	DOE Pump Energy Index CL:	0.89		
•				
	Gross weight:	764 lb		
Shipping volume: 39.9 ft <sup>3</sup>	-	39.9 ft <sup>3</sup>		
Country of origin: US		US		
Custom tariff no.: 8413.70.2040		8413.70.2040		



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