# Submittal Data

UNIT TAG:	QUANTITY:
TYPE OF SERVICE:	
SUBMITTED BY:	DATE:
APPROVED BY:	DATE:
ORDER NO.:	DATE:
	TYPE OF SERVICE: SUBMITTED BY: APPROVED BY:

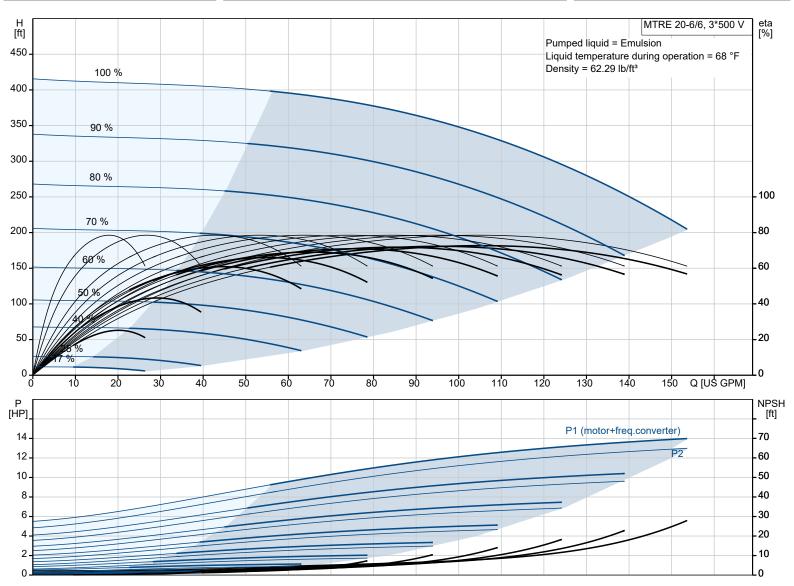


## MTRE 20-6/6 A-WB-A-HUUV

Vertical multistage centrifugal pump with integrated frequency converter designed for tank top mounting and for pumping of cooling lubricants and cutting oils for machine tools, cooling applications, industrial liquid transfer and similar applications.

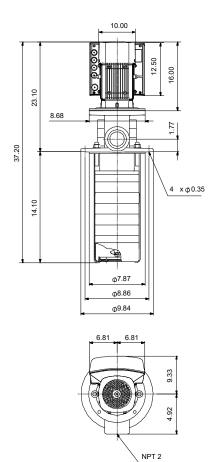
Note! Product picture may differ from actual product

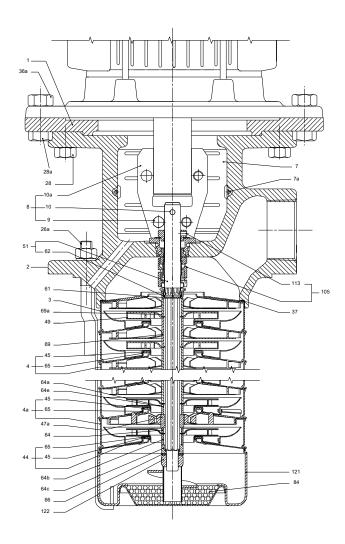
Conditions o	f Service	Pump Data		Motor Da	ata
Liquid: Temperature: Specific Gravity:	Emulsion 68 °F 1.000	Max pressure at stated temp: Liquid temperature range: Maximum ambient temperature: Shaft seal: Product number:	363 psi / 194 °F 14 194 °F 122 °F HUUV 99077598	Rated power - P2: Rated voltage: Mains frequency: Enclosure class: Insulation class: Motor protection: Motor type: Eta 1/1:	15 HP 440-480 V 60 Hz IP55 F ELEC 160H 93.2 %





# Submittal Data





## Materials:

Impeller:
Impeller:
Impeller:
Material code:

Stainless steel AISI 304 EN 1.4301 A



Date:

26/09/2023

## Qty. | Description

1 MTRE 20-6/6 A-WB-A-HUUV



### Product No.: 99077598

Multistage, immersible, self-priming, centrifugal pump for vertical installation in tanks etc. The pump head and base are in cast iron – all other wetted parts are in stainless steel. The pump has the following characteristics:

- Dimensions according to DIN 5440.
- Impellers, intermediate chambers and spline shaft are made of Stainless steel.
- Mechanical shaft seal according to EN 12756.
- Power transmission via sintered metal split coupling.

A cartridge shaft seal ensures high reliability, safe handling, and easy access and service.

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

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. The operating panel on the motor terminal box features a four-inch TFT display, push-buttons and the Grundfos Eye indicator.

The display gives an intuitive and user-friendly interface to all functions.

The push-buttons are used to navigate through the menu structure to access pump and performance data on site and enable 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 also 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
- 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.

Immersion depth:	14.1 in	
Controls: Frequency converter:	Built-in	
Liquid: Pumped liquid: Liquid temperature range: Selected liquid temperature: Density:	Emulsion 14 194 °F 68 °F 62.29 lb/ft³	
Technical: Pump speed on which pump data Rated flow: Rated head:	are based: 111 US GPM 318.9 ft	3444 rpm



#### Qty. Description

1

26/09/2023 Date: Chambers: 6 Drainage back to tank: Ν Pump orientation: Vertical Code for shaft seal: HUUV Approvals: CE,UKCA,RCM,cURus/cCSAus Approvals for motor: CE, RCM, cURus, IE5, IES2, UKCA, SEPRO Energy approvals for motor: CE Curve tolerance: ISO9906:2012 3B Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Materials: Pump head: Cast iron EN 1561 EN-GJL-200 **ASTM A48-25B** Impeller: Stainless steel EN 1.4301 AISI 304 Installation: Maximum ambient temperature: 122 °F Maximum operating pressure: 362.59 psi 363 psi / 194 °F Max pressure at stated temp: Type of connection: NPT(F) Size of outlet connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 254TC Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 15 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y 3 x 440-480 V Rated voltage: Service factor: 1.15 Rated current: 17.9-16.6 A

Cos phi - power factor: 0.92-0.91 Rated speed: 360-4000 rpm IE Efficiency class: IE5 Motor efficiency at full load: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 99256777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Others: Terminal box position: 6 Minimum efficiency index, MEI ≥: 0.70 Net weight: 180 lb Gross weight: 244 lb

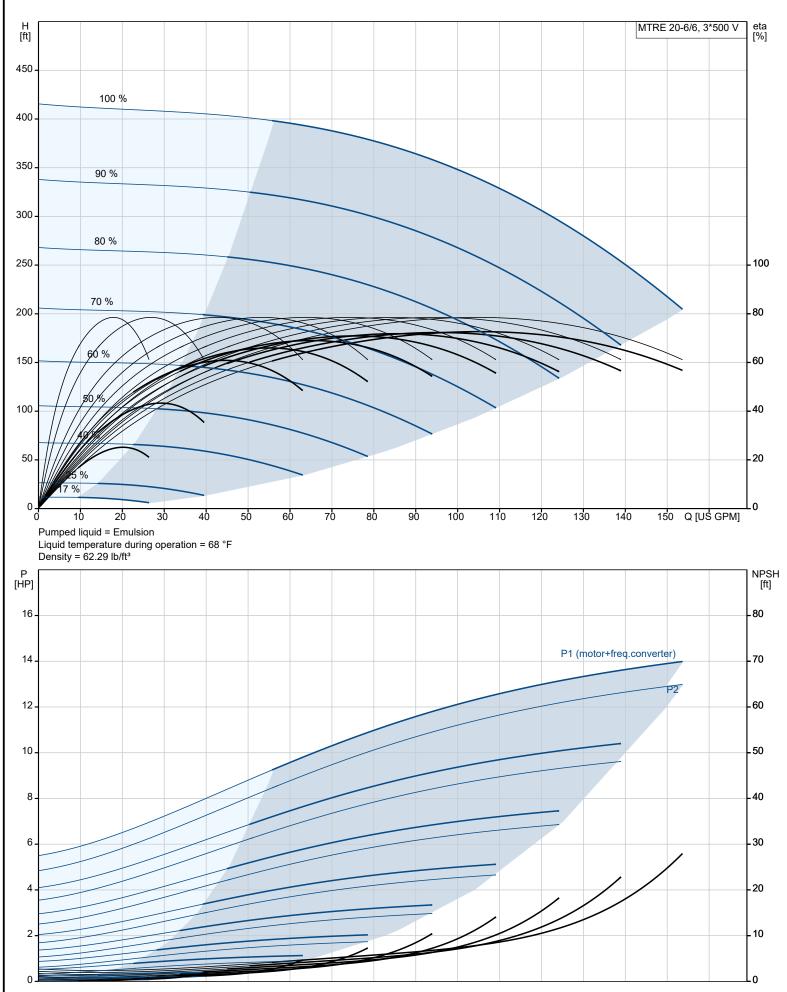
Shipping volume: 16.9 ft<sup>3</sup> Country of origin: US Custom tariff no .: 8413.70.2040



26/09/2023

Date:

## 99077598 MTRE 20-6/6 A-WB-A-HUUV 60 Hz



## Company name: Created by: Phone:

Description     Value     If IE 20-66 A-WB-A-HUUV       Product Name Borrysse     6007756       EAN runnber:     6712000312054       Pump peed on which pump data are based.     3444 rpn       Rated flow:     111 US GPMA       Rated flow:     0       Duringe back to thork.     N       Pump obtains:     Units       Pump obtains:     Units       Pump obtains:     CELINCA/REM.c/RMuck/GBAUA       Approvale for motor:     CEC EXCM, UNIts, ES, ES2, UKCA       Energy approvale for motor:     CCC       Carlo dig antiny:     1 x NPT 3/4* + 5 x NPT 1/2*       Pump head     ATM AB 250       Impainer:     AS1 30.48       Material codo:     A       Pump head     Carl 100       Pump head     ATM AB 250       Impainer:     X81 30.42       Material codo:     A       Pump head     Carl 100       Impainer:     X81 30.42       Material codo:     A       Pump head     Carl 101       Material co			Date: 26/09/2023
General Information: MTRE 20-86 A.WBA-HULU Product name: MTRE 20-86 A.WBA-HULU Product Name: Benzy approvale on which pump data are Sepang-June on which pump data are	Description	Value	H [ft] MTRE 20-6/6, 3*500 V
Product name: MTRE 20.88 AVMB-AHUUV Product Name EAM number: 57120051 2054 The Stranding Stra		Value	
Product Name Product Name Pr			100 %
EAN number: 57/2006312054 Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump data are 3444 rpm Pump speed on which pump speed on whic			400 -
Technicki Pump speed on which pump data are based. Rated floor: 111 US GPM Rated head: 111 US GPM Rated head: 0 Daivage back to tank: N Pump orientiation: CE RCM cURAL [ES, IES2,UKCA SEPRO CE UKCA ROM.cURAL/ES, IES2,UKCA SEPRO CA IN SOUTH SEPRO CE UKCA ROM.cURAL/ES, IES2,UKCA SEPRO CA IN SOUTH SEPRO CA IN SOUTH			
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Alled Flow: Alled from: Alled from: Alled from: Alled from: Alled from: Based: Alled from: Drainage backed diameter impellers: 0 Drainage backed for that has: HUVV Approvals: CE, RCM, URUS, IES, IES2, UKCA, Bregy approvals for motor: CE, RCM, URUS, IES2, UKCA, Bregy approvals for motor: CE, RCM, URUS, IES, IES2, UKCA, Bregy approvals for motor: CE, RCM, URUS, IES, IES2, UKCA, Bregy approvals for motor: CE and intervent in the presence of the intervent inter			
Analo hoo. 111 US Grim Rando hoo. 111 US Grim	Pump speed on which pump data are based:	3444 rpm	
Chambers 6 0 Number of reducad-diameter impollers: 0 Drainage back to fank: Number of reducad-diameter impollers: 0 Drainage back to fank: Number of reducad-diameter impollers: 0 Drainage back to fank: Nump otentiation: CEL (KCA RCM cURus, IES, IES2,UKCA, SEPRO CEL (COLUCIA, IES, IES2,UKCA, SEPRO Purp head: Cast fron Purp head: Cast fron Purp head: Cast fron Purp head: National code: A Material code: Mas pressure at stated temp: 363 pal / 164 4F Type of connection: 2 inch Immersion depti: 1 4. 114 if Finage size for moto: 2 inch Immersion depti: 1 4. 194 °F Side of colucit: Cast fron Connect code: WB Lefficient consection: 2 inch Immersion depti: 1 4. 194 °F Side of colucit: Cast fron Cel (Colucit): Connect code: WB Lefficient consection: 2 inch Immersion depti: 1 4. 194 °F Side of colucit: 2 inch Immersion depti: 1 4. 194 °F Side of ron 5060 Hz: Side of for 5060 Hz: Side of locit: 1 56 Motor micro rol Cel (Colucit): Side of locit: 1 56 Side of locit consection: 2 inch Immersion depti: 1 57 Side of ron 5060 Hz: Side of locit consection: 2 inch Side of locit consection: 3 inch Side of locit consection: 3 inch Side of locit	Rated flow:	111 US GPM	250
Chambers 6 Number of reduced-diameter impellers: 0 Drainage back to lank: Number of reduced-diameter impellers: 0 Drainage back to lank: Numportentiation: Cel, UKCA RCM, oURuse/CSAus Approvals for motor: CE, RCM, oURus, IES, IES2,UKCA, SEPRO Curve tolerance: ISO9900-2012 3B Pump version: A Cable gland entry: 1 NPT 34" + 5 x NPT 112" Pump head: Density: Pump head: National code: Materials: Pump head: Density: Materials: Pump head: Density: Materials: Pump head: National code: Materials: Pump head: National code: Materials: Pump head: National code: Materials: Pump head: Net Site IS-ND-120 Pump head: National code: Materials: Pump head: National code: Materials: Pump head: National code: Materials: Pump head: National code: Materials: Pump head: National code: Material code: Material code: Material code: Materials: Pump head: National code: Material code:	Rated head:	318.9 ft	70 %
Implement of reduced-dameter implements Outputs of reduced-dameter implements Outputs of reduced-dameter implements Outputs dameter implements Outputs dameter implements Outputs dameter implements Derivation for motor: CEL Curve tolerance: ISOS080:2012 3B Pump training Celle (guid entry): A Model: Cable guid entry: Pump head: Pump head:			200
Number of reduced diameter impellers: Drainage back to fank: Number of reduced diameter impellers: Drainage back to fank: Numportaination: Cde for shaft seal: Approvals: Derug of inatiana: Approvals: Derug of inatiana: Approvals: Ce LWCA RCM cURus; IES, IES2,UKCA SEPRO: Curve tolerance: Durup of inatiana: Pump version: A Cable glant entry: Number at the seal: Pump head: Pump hea			150 60 %
Dentage back to tank: N Pump definition: Vertical Code for shaft seal: HUUY Approvals: CE_EKCA.RCM.cURuseCSAus Approvals: CCE_KCA.RCM.cURuseCSAus Approvals: CCE_KCA.RCM.cURuseCSAus CE_EXCA.RCM.cURuseCSAus CE_EXCA.RCM.cURuseCSAus CE_EXCA.RCM.cURuseCSAus CE_EXCA.RCM.cURuseCSAus CE_EXCA.RCM.cURuseCSAus Pump version: A Model: A Code gind entry: IXNPT 34" + 5 x NPT 1/2" To read entry: CCAST ion Pump head: CCAST ion Pump head: CCAST ion Pump head: EN 1605 EN-GJL-200 Pump head: EN 14.301 Impelier: AlsI304 Material core: A Installaton: MORT(F) Size of outch concector: VPT(F) Size of outch concector: Signer Encrical data: Moder Sindand: MEMA Moder Signer Selected fluid temperature: 68 °F Denensity: CS2.9107 Electrical data: Moder Sindand: NEMA Moder Sindand: Signer Sitable for 50806 Hz: Sy Sitable for	•		50%
Pump derivation: Vertical Code for shaft seeks: PUUV Approvals is CE_LWCARCM.cURUNACGSAUS Approvals for motor: CE_ERCM. CHURUN IES, IES2.UKCA, SEPRO. Description: A CE_ERCM. CHURUN IES, IES2.UKCA, SEPRO. Description: A CA Cable giand entry: 1 x NPT 3/4* + 5 x NPT 1/2* CAS CAUSE APPROVED ACTION OF CODE CHURUN IEST. CAS CAUSE APPROVED AT A CHURUN IEST. CAUSE APPROVED A	Drainage back to tank:	N	
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Application function. SEPRO Paregrave approvals for motor: CE Curve tolerance: ISO 9906:2012 3B Pump version: A Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Pump head: Cast iron Pump head: Cast iron Pump head: ASTM A48-25B Impelier: EISI 1A:301 Impelier: AISI 30:4 Materials code: A Instaliation: Materials code: A Instaliation: Materials code: A Instaliation: Maximum ambient temperature: 302,59 psi Maximum ambient temperature: 303,39 i / 194 °F Type of connection: 2 inch Immersion depth: 14, 1 in Immersion depth: 15, 10 Connect code: WB Liquit Liquit demorature: age: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 3 x 440-480 V Satubel for 5060 Hz: Y Rated values: 4 x 400 X Satubel for 5060 Hz: Y Rated values: 4 x 400 X Satubel for 5060 Hz: Y Satubel for 5060 Hz	Approvals:	CE,UKCA,RCM,cURus/cCSAus	0 20 40 60 80 100 120 Q [US GPM]
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Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Materials: Pump head: Cast iron Pump head: Ext Sun 1561 EN-GJL-200 Pump head: Sun 1561 EN-GJL-200 Pump head: Ext Sun 1561 EN-GJL-200 Pump head: Sun 1484 258 Impeller: Sun 1484 258 Impeller: Als 3 044 Material code: A	•		14 - P1 (motor+freq.converter)
Cable gland entry: 1 X NP1 34" + 5 X NP1 1/2" Table gland entry: 1 X			P2
Pump head: Pump head: Pump head: Pump head: Pump head: Pump head: Pump head: Pump head: ASITM A48-26B Impelier: Stainless steel Impelier: AISI 304 Material code: A Material code: A Material code: A Maximum ambient temperature: I22 "F Maximum ambient temperature: I22 of outlet connection: NPT(F) Stor of outlet connection: Immersion depth: Index temperature: I14. 110 Flange size for motor: Cable data Motor standard: NEMA Motor type: I60H Mated submersione: I15 HP Mains frequency: Stateb (CSMG) Hz: Strubel for Stole H		1 x NPT 3/4" + 5 x NPT 1/2"	12
Pump head:EN 1561 EN-GU-200Pump head:ASTM A48-258Impelier:Stainless steelImpelier:EN 1.4301Impelier:AMatimum ambient temperature:122 "FMaximum ambient temperature:362.59 psiMax pressure at stated temp:363.29 1/34 "FType of connection:NPT(F)Size of ouldet connection:2 inchImmersion depth:1.4.1 inFlange size for motor:254TCConnect code:WBLiquid:EmulsionLiquid:EmulsionLiquid:EmulsionBetcrical data:Moot rybe:Motor shandard:NEMAMotor ybe:160HRated gover - P2:15 HPMains requency:60 HzService factor:1.7.9-16.6 ACos pi:p: 2.50 yhRated speed:30.400 rybe:Rated speed:30.200 rybe:Builsh motor porce:1.55Instation:93.2 %Endisence data:1.50 or 1.5Motor stask (IC 34-5):FBuilsh motor porcetion:93.2 %Endisence datas (IEC 34-5):FMotor hoc:92.56777Cable giand entry:1.x NPT 3/4" + 5 x NPT 1/2"Cable giand entry:1.x NPT 3/4" + 5 x NPT 1/2"			10
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Impelier:Stainless steelImpelier:EN 1.4301Impelier:Al S104Impelier:Al S104Matarial code:AInstallation:Impelier:Maximum abient temperature:122 YFMaximum abient temperature:362.59 psiMax pressure at stated temp:363.09 l/ 194 'FFType of connection:NPT(F)Size of outlet connection:2 inchImmersion depth:14.1 inFlange size for motor:254TCConnect code:WBLiquid temperature range:14194 'FSelected liquid temperature:68 'FDensity:62.29 lb/ft <sup>a</sup> Electrical data:Motor type:Motor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 5060 Hz:YRated ourget:3 x 440-480 VService factor:1.15Rated queet:30 - 04000 rpmIE Efficiency class:IE5Motor type:160HIE Efficiency class:IE5Motor factor:0.92-0.91Rated speet:30.2 %Enclosure class (IEC 34-5):IP55Insultion class (IEC 36):FBuilth motor protection:ELECMotor No:9256777Cable gland entry:1 x NPT 3/4'' + 5 x NPT 1/2''Controis:ELEC	Pump head:	EN 1561 EN-GJL-200	8
Impelier:Stainless steelImpelier:EN 1.4301Impelier:Al S104Impelier:Al S104Matarial code:AInstallation:Impelier:Maximum abient temperature:122 YFMaximum abient temperature:362.59 psiMax pressure at stated temp:363.09 l/ 194 'FFType of connection:NPT(F)Size of outlet connection:2 inchImmersion depth:14.1 inFlange size for motor:254TCConnect code:WBLiquid temperature range:14194 'FSelected liquid temperature:68 'FDensity:62.29 lb/ft <sup>a</sup> Electrical data:Motor type:Motor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 5060 Hz:YRated ourget:3 x 440-480 VService factor:1.15Rated queet:30 - 04000 rpmIE Efficiency class:IE5Motor type:160HIE Efficiency class:IE5Motor factor:0.92-0.91Rated speet:30.2 %Enclosure class (IEC 34-5):IP55Insultion class (IEC 36):FBuilth motor protection:ELECMotor No:9256777Cable gland entry:1 x NPT 3/4'' + 5 x NPT 1/2''Controis:ELEC	Pump head:	ASTM A48-25B	6-
Impeller:EN 14301Impeller:AISI 304Material code:AInstallation: $2^{2}$ Maximum ambient temperature:122 'FMaximum ambient temperature:363 26.59 psiMax pressure at stated temp:363 psi / 194 ''FType of connection:NPT(F)Size of outlet connection:2 inchImmersion depth:14.1 inFlange size for moto:254 TCConnect code:W8Liquid:EnulsionLiquid temperature:68 'FDensity:62.29 lb/ft*Electrical data:Motor standard:Motor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:1.5Saled lower - P2:15 HPSultable for 50/60 Hz:YSultable for 50/60 Hz:YRated youtage:3 x 440-480 VService factor:1.15Rated speet:360-4000 rpmEl Efficiency class:EE5Motor efficiency at full load:32 2%Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):IP55Insulation class (IEC 34-5):FBuilt-m motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controis:Standard + 5 x NPT 1/2"		Stainless steel	
Impeller:AISI 304Material code:AInstallation:Installation:Maximum operating pressure:122 "FMaximum operating pressure:362 58 psiMax pressure at stated temp:363 psi / 194 "FType of connection:NPT(F)Size of outle connection:NPT(F)Size of outle connection:2 inchImmersion depth:14.1 inInmersion depth:14194 "FConnect code:WBLiquid:EmulsionLiquid temperature:68 "FDensity:62 29 lofth"Electrical data:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMASuitable for 50/60 Hz:YSuitable for 50/60 Hz:YRated speed:360-4000 rpmElefticincy class:IE5Insultation class (IEC 35):FBuilt-in motor protection:ELECMotor Ne:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controis:1 x NPT 3/4" + 5 x NPT 1/2"			4
Material code: A   Installation:   Maximum ambient temperature:   122 "F   Maximum operating pressure:   362 59 psi   Max pressure at stated temp:   363 psi / 194 "F   Type of connection:   NPT(F)   Size of outlet connection:   2 inch   Immersion depth:   14.1 in   Flange size for motor:   2 Stat C   Connect code:   Uguid:   Pumped liquid:   Emails   Density:   62 29 lib/ft <sup>3</sup> Electrical data:   Motor standard:   NEMA   Motor standard:   Network for:   0.92-0.91   Rated opwer - P2:   15   Rated opwer factor:   1.15   Rated opwer factor:   0.92-0.91   Rated speed:   360-4000 rpm   El Efficiency class:   IES   Insolution class (IEC 85):   F   Builth motor protection:   ELEC   Motor No:   99256777   Cable gland entry:   1 x NPT 3/4" + 5 x NPT 1/2"	-		2
Installation: Maximum ambient temperature: 122 "F Maximum ambient temperature: 122 "F Maximum ambient temperature: 363 psi / 194 "F Type of connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 2 set Cut Cut connection: 2 unch Inmersion depth: 14.1 in Flange size for motor: 2 set Cut Cut connection: 2 unch Inmersion depth: 14.1 in Flange size for motor: 2 set Cut Cut connection: 2 unch Inmersion depth: 14.1 in Flange size for motor: 2 set Cut Cut connection: 2 unch Liquid: Pumped liquid: Emulsion Liquid temperature range: 14.1 94 "F Selected liquid temperature: 68 "F Density: 2 C2.29 lb/R <sup>a</sup> Electrical data: Motor standard: Motor standard: Motor standard: Motor standard: NEMA Motor type: 160H Rated yourse: 3 x 440-480 V Service factor: 0 y2-0.91 Rated speed: 3 soutedourpm Elefficiency class: Eleftical class; Motor fficiency at full load: 9 y2.2 % Enclosure class; (EC 34-5): Insulation class (IEC 85): Built-in motor protection: ELEC Motor No: 2 y226777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Controls: We control: Eleftical protection: Eleftical gland entry: 2 x NPT 3/4" + 5 x NPT 1/2" 2 x NPT 3/4" +	-		
Maximum ambient temperature: 122 °F Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 194 °F Type of connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 254TC Connect code: WB Liquid: Electroid temperature range: 14194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft <sup>a</sup> Electrical data: Motor standard: NEMA Motor type: 160H Rated opwer - P2: 15 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 440-480 V Service factor: 1.15 Rated outge: 3 x 440-480 V Service factor: 1.15 Rated speed: 17.9-16.6 A Cos phi - power factor: 0.92-0.91 Rated speed: 155 Motor efficiency at full load: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): F Built-in motor protection: ELEC Motor No: 99256777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Controls:		A	0
Maximum operating pressure: 362.59 psi Max pressure at stated temp: 363 psi / 194 °F Type of connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 254TC Connect code: WB Liquit Humped liquid: Emulsion Liquid temperature range: 14194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft <sup>a</sup> Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 15 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 440-480 V Service factor: 1.15 Rated outge: 3 x 440-480 V Service factor: 0.92-0.91 Rated speed: 360-4000 rpm IE Efficiency class: IE5 Motor efficiency at full load: 93.2 % Enclosure class (IEC 34-5); IP55 Insulation class (IEC 34-5);			<b>k</b>
Max pressure at stated temp: 363 psi / 194 °F Type of connection: NPT(F) Size of outlet connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 254TC Connect code: WB Liquid: Emulsion Liquid temperature range: 14194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft <sup>a</sup> Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 15 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y Rated outlege: 3 x 440-480 V Service factor: 1.15 Rated outlege: 3 x 440-480 V Service factor: 0.92-0.91 Rated outlege: 360-4000 pm Elefficiency at suit liolad: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): F Built-in motor protection: ELEC Motor No: 99258777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2" Controls:			
Type of connection:NPT(F)Size of outlet connection:2 inchImmersion depth:14.1 inFlange size for motor:254TCConnect code:WBLiquid:EmulsionLiquid temperature range:14.194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:NEMAMotor efficiency at full load:93.2 %Enclosure class (IEC 24-5):IP55Built-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Standard:	Maximum operating pressure:		
Type of conflectation. NPT ( $P$ ) Size of outlet connection: 2 inch Immersion depth: 14.1 in Flange size for motor: 254TC Connect code: WB Liquid: Pumped liquid: Emulsion Liquid temperature range: 14194 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ft <sup>3</sup> Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 16 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y Rated outrent: 17.9-16.6 A Cos phi - power factor: 0.92-0.91 Rated speed: 360-4000 rpm Ele Efficiency at still load: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): F Built-in motor protection: ELEC Motor No: 99256777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2"	Max pressure at stated temp:	363 psi / 194 °F	
Size of outlet connection: 2 inch Immersion depth: 14.1 in Flange size for mator: 254TC Connect code: WB Liquit Humperature: 84 % F Selected liquid temperature: 68 % F Density: 62.29 lbft <sup>9</sup> Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 15 HP Mains frequency: 60 Hz Suitable for 50/60 Hz: Y Rated voltage: 3 x 440-480 V Service factor: 1.15 Rated current: 17.9-16.6 A Cos phi - power factor: 0.92-0.91 Rated speed: 360-4000 rpm Elefficiency at full load: 93.2 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 35); F Built-in motor protection: ELEC Motor No: 99256777 Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2"	Type of connection:	NPT(F)	
Immersion depth:14.1 inFlange size for motor:254TCConnect code:WBLiquid:EmulsionLiquid temperature range:14 194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAMotor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 34-5):IP55Insulation class (IEC 34-5):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:ELEC	Size of outlet connection:		
Flange size for motor:254TCConnect code:WBLiquid:EmulsionLiquid temperature range:14194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:NEMAMotor type:160 HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YSuitable for 50/60 Hz:YRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated current:1.15Rated current:1.7.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor type:15 HPMotor soi:9.22 %Enclosure class (IEC S4-5):IP55Insulation class (IEC S5):FBuilt-in motor protection:ELECMotor No:9.9256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Enclosure class (IEC S1):			
Connect code:WBLiquid:EmulsionLiquid temperature range:14194 'FSelected liquid temperature:68 'FDensity:62.29 lb/ft"Electrical data:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMotor standard:NEMAMains frequency:60 HzSuitable for Sol60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:9.32 '%Insulation class (IEC 34-5):IP55Insulation class (IEC 245):FBuilt-In motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:			
Liquid:EmulsionLiquid temperature range:14194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft°Electrical data:NEMAMotor standard:NEMAMotor type:160 HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x440-480 VService factor:1.15Rated voltage:3 x440-480 VService factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Inclusion class (IEC 34-5):IP55Insulation class (IEC 45):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:	-		
Pumped liquid:EmulsionLiquid temperature range:14194 °FSelected liquid temperature:68 °FDensity:62.29 lb/th³Electrical data:NEMAMotor standard:NEMAMotor type:160HRated power - P2:15 HPWains frequency:60 HzSuitable for 50/60 Hz:YSuitable for 50/60 Hz:YRated voltage: $3 \times 440-480 V$ Service factor:1.15Rated voltage: $3 60-4000 rpm$ IE Efficiency class:IE5Motor efficiency at sull load: $93.2 %$ Enclosure class (IEC 34-5):FBuilt-in motor protection:ELECMotor No: $99256777$ Cable gland entry: $1 \times NPT 3/4" + 5 \times NPT 1/2"$ Controls: $1 \times NPT 3/4" + 5 \times NPT 1/2"$		VVB	
Liquid temperature range:14 194 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Electrical data:Motor standard:Motor standard:Motor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 pmIE Efficiency class:IE5Motor efficiency at full load:9.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 35):FBull-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:V	-		
Liquid temperature: $68 \text{ °F}$ Selected liquid temperature: $68 \text{ °F}$ Density: $62.29 \text{ Ib/ft}^3$ Electrical data: Motor standard: NEMA Motor type: 160H Rated power - P2: 15 HP Mains frequency: $60 \text{ Hz}$ Suitable for $50/60 \text{ Hz}$ : Y Rated voltage: $3 \times 440-480 \text{ V}$ Service factor: 1.15 Rated voltage: $3 \times 440-480 \text{ V}$ Service factor: 1.15 Rated current: $17.9 \cdot 16.6 \text{ A}$ Cos phi - power factor: $0.92 \cdot 0.91$ Rated speed: $160-4000 \text{ rpm}$ IE Efficiency class: IE5 Motor efficiency at full load: $93.2 \%$ Enclosure class (IEC 34-5): IP55 Insulation class (IEC 34-5): IP55 Insulation class (IEC 35): F Built-in motor protection: ELEC Motor No: $99256777$ Cable gland entry: $1 \times \text{NPT } 3/4" + 5 \times \text{NPT } 1/2"$			
Density: $62.29 \text{ lb/ft}^3$ Electrical data:NEMAMotor standard:NEMAMotor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:E	Liquid temperature range:	14 194 °F	
Density: $62.29 \text{ lb/ft}^3$ Electrical data:Motor standard:NEMAMotor standard:NEMAMotor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insultion class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:E	Selected liquid temperature:	68 °F	
Electrical data:Motor standard:NEMAMotor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage: $3 \times 440-480 V$ Service factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 35):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:1 x NPT 3/4" + 5 x NPT 1/2"		62.29 lb/ft³	
Motor standard:NEMAMotor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 45):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:V	-		
Motor type:160HRated power - P2:15 HPMains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 35):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:1 x NPT 3/4" + 5 x NPT 1/2"		NEMA	a a a a a a a a a a a a a a a a a a a
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Mains frequency:60 HzSuitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:			NPT 2
Suitable for 50/60 Hz:YRated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 35):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Image: Control state sta			
Rated voltage:3 x 440-480 VService factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Image: Control state			
Service factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Image: Control state		Y	
Service factor:1.15Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:Image: Control state	Rated voltage:	3 x 440-480 V	
Rated current:17.9-16.6 ACos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"	-		
Cos phi - power factor:0.92-0.91Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"			
Rated speed:360-4000 rpmIE Efficiency class:IE5Motor efficiency at full load:93.2 %Enclosure class (IEC 34-5):IP55Insulation class (IEC 85):FBuilt-in motor protection:ELECMotor No:99256777Cable gland entry:1 x NPT 3/4" + 5 x NPT 1/2"Controls:			
IE Efficiency class:       IE5         Motor efficiency at full load:       93.2 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99256777         Cable gland entry:       1 x NPT 3/4" + 5 x NPT 1/2"         Controls:       Image: State S			
Motor efficiency at full load:       93.2 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99256777         Cable gland entry:       1 x NPT 3/4" + 5 x NPT 1/2"         Controls:       Image: Control state s			
Motor efficiency at full load:       93.2 %         Enclosure class (IEC 34-5):       IP55         Insulation class (IEC 85):       F         Built-in motor protection:       ELEC         Motor No:       99256777         Cable gland entry:       1 x NPT 3/4" + 5 x NPT 1/2"         Controls:       Image: Control state s			
Insulation class (IEC 85):     F       Built-in motor protection:     ELEC       Motor No:     99256777       Cable gland entry:     1 x NPT 3/4" + 5 x NPT 1/2"			
Built-in motor protection:     ELEC       Motor No:     99256777       Cable gland entry:     1 x NPT 3/4" + 5 x NPT 1/2"       Controls:     Image: Control in the second	Enclosure class (IEC 34-5):	IP55	
Built-in motor protection:     ELEC       Motor No:     99256777       Cable gland entry:     1 x NPT 3/4" + 5 x NPT 1/2"       Controls:     Image: Control in the second	Insulation class (IEC 85):	F	
Motor No:         99256777           Cable gland entry:         1 x NPT 3/4" + 5 x NPT 1/2"           Controls:         Top and		ELEC	
Cable gland entry: 1 x NPT 3/4" + 5 x NPT 1/2"			A (GNna A 
Control panel: Graphical		Openhing	
· · ·	Control panel:	Graphical	



Date:

26/09/2023

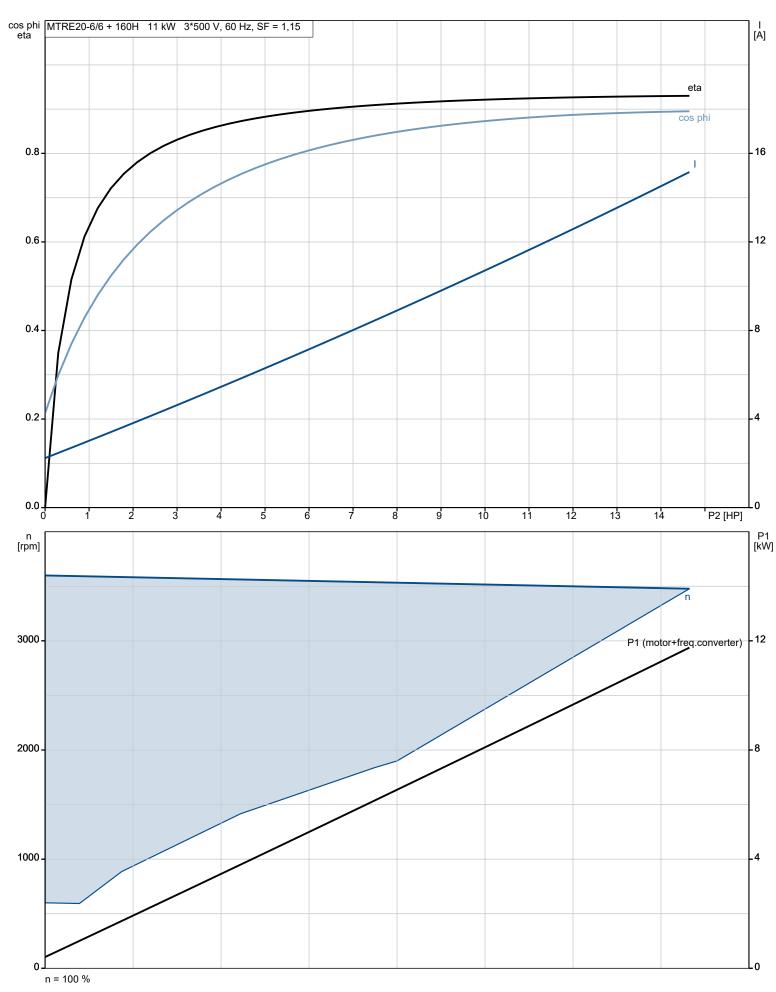
Description	Value
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Others:	
Terminal box position:	6
Minimum efficiency index, MEI ≥:	0.70
Net weight:	180 lb
Gross weight:	244 lb
Shipping volume:	16.9 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040



Date:

26/09/2023

## 99077598 MTRE 20-6/6 A-WB-A-HUUV 60 Hz

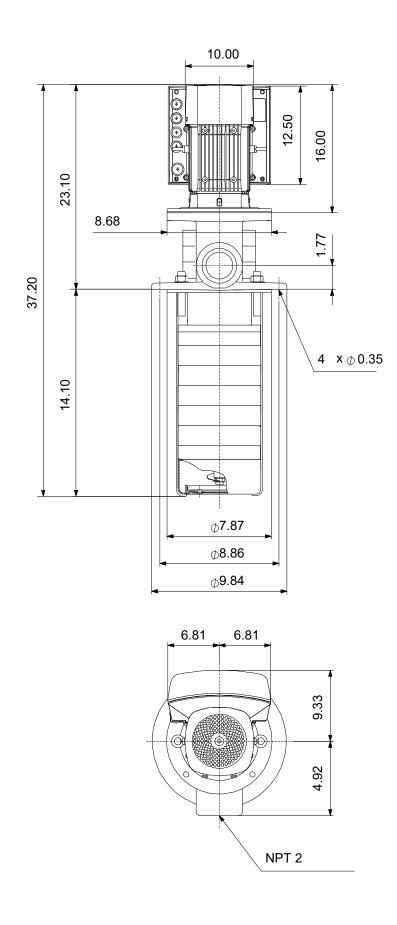


Company name: Created by: Phone:

Date:

26/09/2023

# 99077598 MTRE 20-6/6 A-WB-A-HUUV 60 Hz



Note! All units are in [in] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

Company name: Created by: Phone:

Date:

26/09/2023

## 99077598 MTRE 20-6/6 A-WB-A-HUUV 60 Hz

