



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



#### MTRE 32-4/4 A-G-A-HUUV

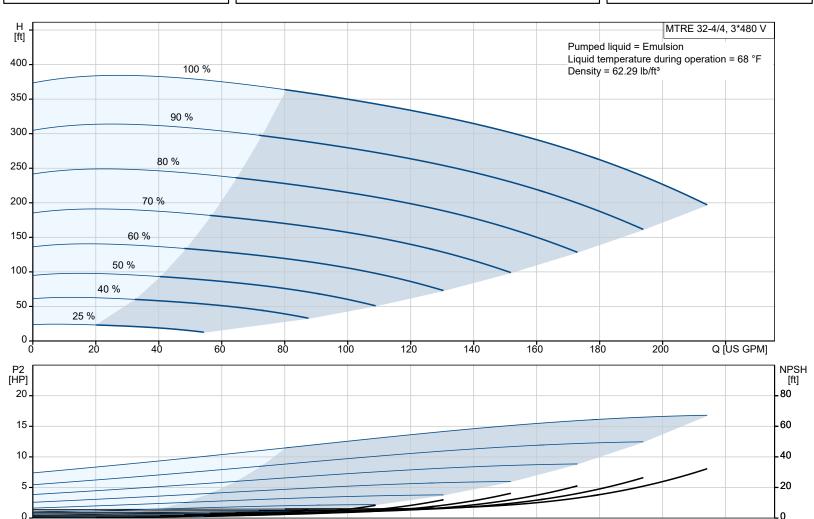
Vertical multistage centrifugal pump with integrated frequency converter designed for tank top mounting and for pumping of cooling lubricants and cutting oils for machine tools, cooling applications, industrial liquid transfer and similar applications.

Note! Product picture may differ from actual product

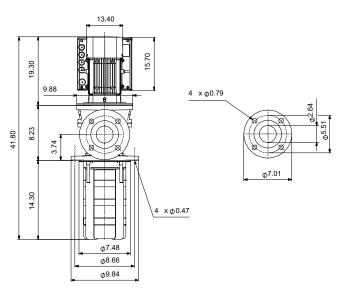
Conditions of Service		
Efficiency:	%	
Liquid:	Emulsion	
Temperature:	68 °F	
NPSH required:	ft	
Specific Gravity:	1.000	

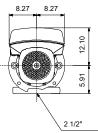
Pump Data		
Max pressure at stated temp:	363 psi / 194 °F	
Liquid temperature range:	14 194 °F	
Maximum ambient temperature:	104 °F	
Shaft seal:	HUUV	
Product number:	98472473	

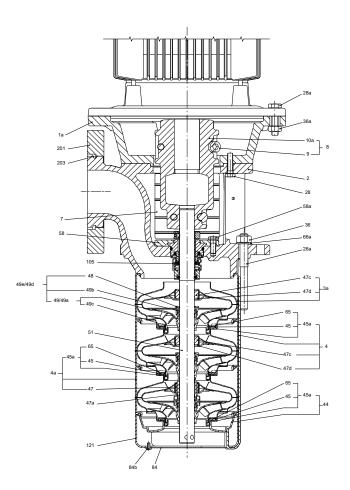
Motor Data	
Rated power - P2:	20 HP
Rated voltage:	460 V
Mains frequency:	60 Hz
Enclosure class:	IP55
Insulation class:	F
Motor protection:	YES
Motor type:	160AB
Eta 1/1:	91.0 %











#### Materials:

Impeller: Stainless steel
Impeller: AISI 304
Impeller: EN 1.4301

Material code: A



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Qty. | Description

MTRE 32-4/4 A-G-A-HUUV



Product No.: 98472473

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 TEST:

- · 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 asynchronous 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.

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 holds terminals for these connections:

- pump start/stop input (potential-free contact)
- remote setpoint setting via analog signal, 0-10 V, 0(4)-20 mA
- 10 V voltage supply for setpoint potentiometer, Imax = 5 mA
- three analog sensor inputs, 0-10 V, 0(4)-20 mA
- 24 V voltage supply for sensor, Imax = 40 mA
- one analog output
- three digital inputs
- two Pt100 inputs
- two potential-free fault signal relays with changeover contact, reporting "Fault", "Operation" or "Ready"
- · RS-485 GENIbus connection
- interface for Grundfos CIM fieldbus module.

Controls:

Frequency converter: Built-in

Liquid:

Pumped liquid: Emulsion
Liquid temperature range: 14 .. 194 °F
Selected liquid temperature: 68 °F
Density: 62.29 lb/ft³

Technical:

Pump speed on which pump data are based: 3497 rpm

Rated flow: 159 US GPM
Rated head: 286.1 ft
Chambers: 4
Drainage back to tank: N



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Qty. | Description

Pump orientation: Vertical Code for shaft seal: HUUV Approvals: CE

Approvals for motor: CE, cURus, RCM, UKCA, SEPRO

Energy approvals for motor: CE

Curve tolerance: ISO9906:2012 3B

Cable gland entry: 1xM40+1xM20+4xM16 knock out

Materials:

Pump head: Cast iron

EN 1561 EN-GJL-200

ASTM A48-25B

Impeller: Stainless steel

EN 1.4301 AISI 304

Installation:

t max amb: 104 °F

Maximum operating pressure: 362.59 psi

Max pressure at stated temp: 363 psi / 194 °F

Type of connection: ANSI
Size of outlet connection: 2.5 inch
Immersion depth: 14.3 in
Flange size for motor: 256TC

Electrical data:

Motor standard: NEMA Motor type: 160AB

IE Efficiency class: NEMA Premium / IE3 60Hz

Rated power - P2: 20 HP
Mains frequency: 60 Hz
Suitable for 50/60 Hz: Y

Rated voltage: Y 3 x 460 V

Service factor: 1.15
Rated current: 26 A
Cos phi - power factor: 0.89

Rated speed: 480-3540 rpm

Motor efficiency at full load: 91.0 % Number of poles: 2
Enclosure class (IEC 34-5): IP55
Insulation class (IEC 85): F

Motor No: 85901137

Cable gland entry: 1xM40+1xM20+4xM16 knock out

Others:

Terminal box position: 6

Minimum efficiency index, MEI ≥: 0.70

Net weight: 376 lb

Gross weight: 601 lb

Shipping volume: 43 ft³

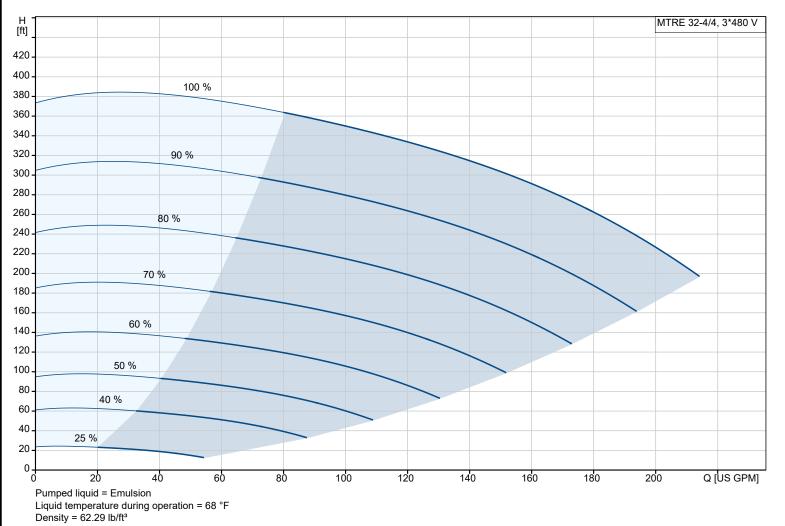
Country of origin: US

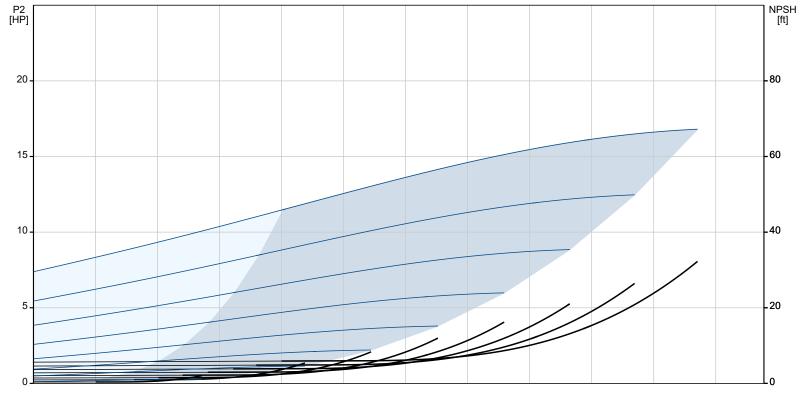
Custom tariff no.: 8413.70.2040



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Description	Value
General information:	
Product name:	MTRE 32-4/4 A-G-A-HUUV
Product No:	98472473
EAN number:	5711495665951
Technical:	
Pump speed on which pump data are based:	3497 rpm
Rated flow:	159 US GPM
Rated head:	286.1 ft
Chambers:	4
Impellers:	4
Number of reduced-diameter impellers:	0
Drainage back to tank:	N
Pump orientation:	Vertical
Code for shaft seal:	HUUV
Approvals:	CE
Approvals for motor:	CE, cURus, RCM, UKCA,SEPRO
Energy approvals for motor:	CE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	В
Cable gland entry:	1xM40+1xM20+4xM16 knock out
Materials:	
Pump head:	Cast iron
Pump head:	EN 1561 EN-GJL-200
Pump head:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Installation:	
t max amb:	104 °F
Maximum operating pressure:	362.59 psi
Max pressure at stated temp:	363 psi / 194 °F
Type of connection:	ANSI
Size of outlet connection:	2.5 inch
Immersion depth:	14.3 in
Flange size for motor:	256TC
Connect code:	G
Liquid:	

**Emulsion** 

68 °F

NEMA

160AB

20 HP

60 Hz

1.15

26 A

0.89

2 IP55

F

91.0 %

3 x 460 V

480-3540 rpm

Υ

NEMA Premium / IE3 60Hz

14 .. 194 °F

62.29 lb/ft<sup>3</sup>

Pumped liquid:

**Electrical data:** Motor standard:

IE Efficiency class:

Rated power - P2:

Mains frequency:

Rated voltage:

Service factor:

Rated current:

Rated speed:

Number of poles:

Suitable for 50/60 Hz:

Cos phi - power factor:

Motor efficiency at full load:

Enclosure class (IEC 34-5): Insulation class (IEC 85):

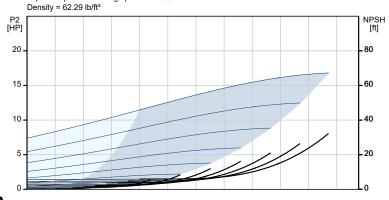
Density:

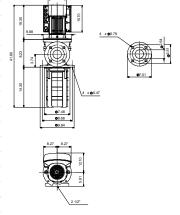
Motor type:

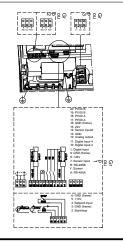
Liquid temperature range:

Selected liquid temperature:

H [ft]		MTRE 32-4/4, 3*480 V
400 -	100 %	
350		
300	90 %	
250 -	80 %	
200 -	70 %	
150 -	60 %	
100	50 %	
50 -	40 %	
0		140 160 180 Q [US GPM]









Company name: Specs Created by: Phone:

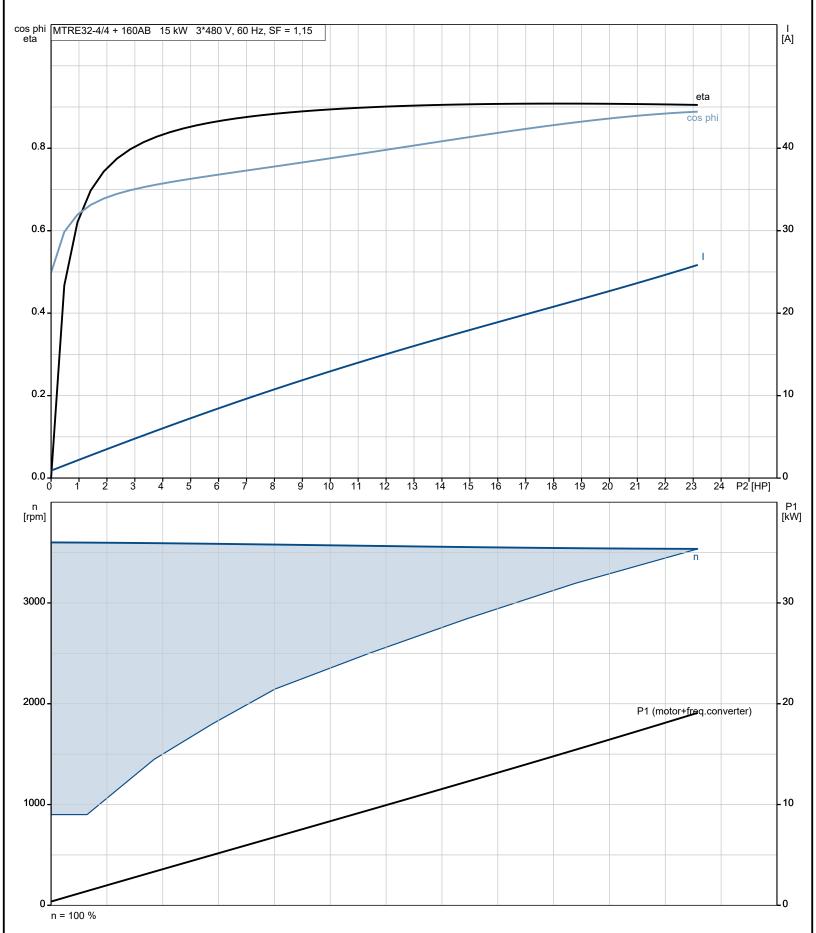
17/02/2023 Date:

Description	Value
Built-in motor protection:	YES
Motor No:	85901137
Cable gland entry:	1xM40+1xM20+4xM16 knock out
Controls:	
Control panel:	Standard
Function Module:	ADVANCED I/O
Frequency converter:	Built-in
Others:	
Terminal box position:	6
Minimum efficiency index, MEI ≥:	0.70
Net weight:	376 lb
Gross weight:	601 lb
Shipping volume:	43 ft <sup>3</sup>
Country of origin:	US
Custom tariff no.:	8413.70.2040



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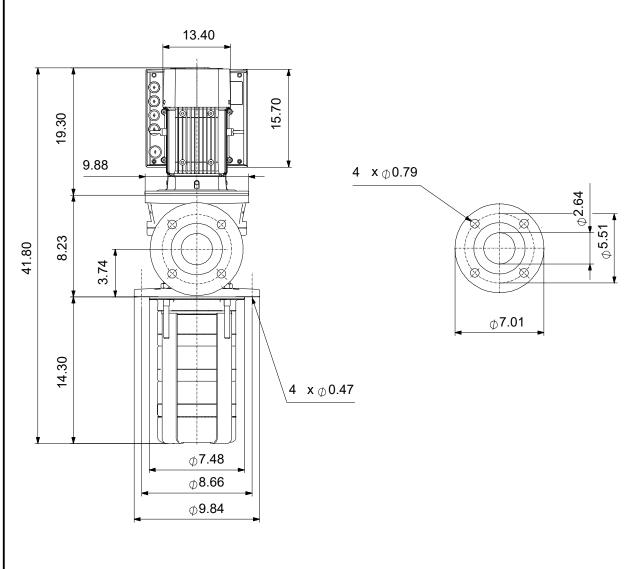
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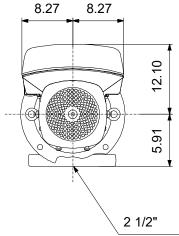




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