

Submittal Data

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

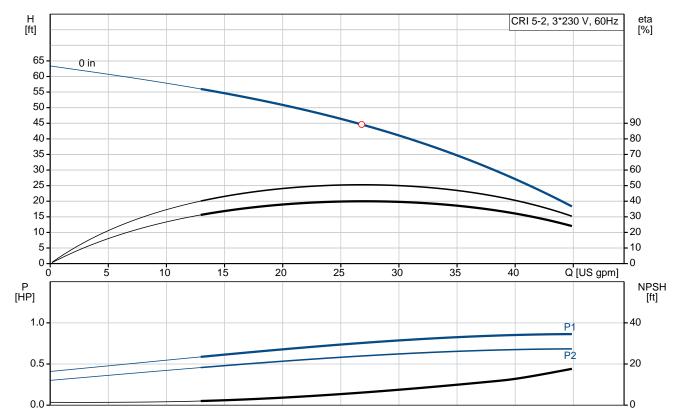


CRI 5-2

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

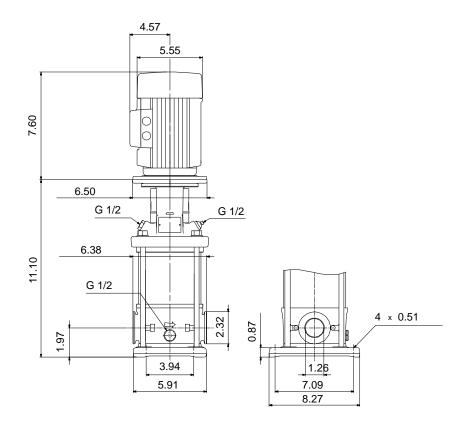
Product photo could vary from the actual product

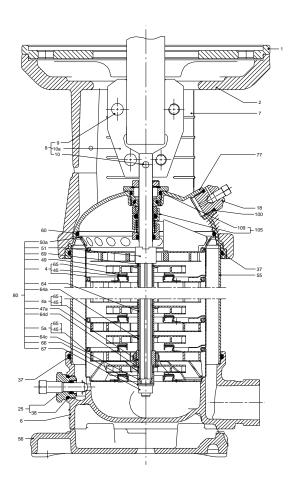
Conditions	of Service	Pump Data		Moto	or Data
Flow:		Max pressure at stated temperature:	363 psi / 194 °F	Rated power - P2:	0.75 HP
Head:		Maximum ambient temperature:	104 °F	Rated voltage:	208-230YY/460Y V
Efficiency:		Approvals:	CURUS	Main frequency:	60 Hz
Liquid:	Water	Shaft seal:	HQQV	Enclosure class:	55 Dust/Jetting
Temperature:	68 °F	Product number:	96084536	Insulation class:	F
NPSH required:	ft			Motor protection:	NONE
Viscosity:				Motor type:	71BA
Specific Gravity:	1.000			Motor_efficiency:	79.0-80.0 %



Submittal Data







N/1	a ta	ria	le:
IV	ate	ria	IS:

Base:

Impeller:

AISI 316 Stainless steel AISI 304 EN 1.4301

Stainless steel

EN 1.4408

Material code: I Code for rubber: V



2/20/2018

Date:

Tender Text

Product No.: 96084536 CRI 5-2 A-CA-I-V-HQQV Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of - Pump head cover and base are made of The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. flanges/couplings. The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft3 Technical: Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp



DN 32

Company name: Created by: Phone:

Date:

2/20/2018

Size of suction port: Size of outlet connection: Size of outlet port: Pressure rating: Flange size for motor:	1 1/4 inch DN 32 1 1/4 inch PN 25 56C
Electrical data:	
Motor standard:	NEMA
Motor type:	71BA
IE Efficiency class:	NA
Rated power - P2:	0.75 HP
Power (P2) required by pump:	0.75 HP
Main frequency:	60 Hz
Rated voltage:	3 x 208-230YY/460Y V
Service factor:	1,25
Rated current:	2,40-2,30/1,20 A
Starting current:	590-650 %
Cos phi - power factor:	0,84-0,78
Rated speed:	3430-3460 rpm
Motor efficiency at full load:	79.0-80.0 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F

Others:

Size of inlet connection:

Net weight:	42.3 lb
Gross weight:	53.3 lb
Shipping volume:	4.94 ft ³

Position Count Description 1 CRI 5-2 Ar CA-LV-HOQV Image: Second	G	RU		Company na Created by: Phone:	ne:	
1 CRI 5-2 A-CA-IV-HOQV Image: CRI 5-2 A-CA-IV-HOQV Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer steeve are made of - Pump head cover and base are made of - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. flanges/couplings. The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid: Pump deliquid: Pump deliquid: Water Liquid temperature during operation:: 68 °F Density: Staft seal arrangement: Single Code for shaft seal:: Shaft seal arrangement: Single Code for shaft seal:: Ext 1.4300 Approvatio nameplate: CURUS Curve tolerance: Ext 1.4301 AlSI 304 Ext 1.4301 AlSI 304 Bearing material: Sitof Impeller:					2/20/2018	
Froduct No: 96084536 Yerduct No: 96084539 Yerduct No: 96084539 Yerduct No: 96084539 Yerduct None 960946539	Position	Count	Description			
Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of - Pump head cover and base are made of - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. flanges/couplings. The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid temperature during operation: Pumped liquid: Water Liquid temperature during operation: Speed for pump data: 3439 rpm Pumporientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 EN 1.4408 Base: Stainless steel EN 1.4301 AlSI 316 Impeller:		1	CRI 5-2 A-CA-I-V-HQQV			
Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers, intermediate chambers and outer sleeve are made of - Pump head cover and base are made of - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. flanges/couplings. The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid Water Liquid temperature during operation: 68 "F Density: 62.29 lb/ft ³ Technical: Speed for pump data: Speed for pump otentation: Vertical Shaft seal arrangement: Single Curve tolerance: ISO9906:2012 3B Materials: EN 1.4408 EN 1.4408 ASI 316 Impeller: Stainless steel EN 1.4301 ASI 304 Bearing material: SIC Installation: Maximus anditent temperature: 104 "F Maximum						
Impellers, intermediate chambers and outer sleeve are made of Pump head cover and base are made of The shaft seal has assembly length according to EN 12756. Power transmission is via cast iron split coupling. Itanges/couplings. The motor is a 3-phase AC motor. Controls: Terequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/th Technical: Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F			Vertical, non-self-priming, multis centrifugal pump for installation i			
The motor is a 3-phase AC motor. Controls: Frequency converter: NONE Liquid: Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft ⁹ Technical: Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Maximum ambient temperature: 363 psi / 194 °F S63 psi / 194 °F T63 psi / 194 °F The for connection: FlexiClamp			 Impellers, intermediate ch sleeve are made of Pump head cover and ba The shaft seal has assem according to EN 12756. Power transmission is via coupling. 	nambers and outer se are made of ably length		
Frequency converter: NONE Liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft ³ Technical: Speed for pump data: Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / 194 °F Type of connection:				r.		
Pumped liquid: Water Liquid temperature during operation: 68 °F Density: 62.29 lb/ft³ Technical: Speed for pump data: Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection:				NONE		
Speed for pump data: 3439 rpm Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp			Pumped liquid: Liquid temperature during opera	tion: 68 °F		
Base: Base: Stainless steel EN 1.4408 AISI 316 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp			Speed for pump data: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate:	Vertical Single HQQV CURUS		
Impeller: Stainless steel EN 1.4301 AISI 304 Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp						
Bearing material: SIC Installation: Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp			Impeller:	Stainless steel EN 1.4301		
Maximum ambient temperature: 104 °F Max pressure at stated temperature: 363 psi / 194 °F 363 psi / -4 °F Type of connection: FlexiClamp			Bearing material:			
Type of connection: FlexiClamp			Maximum ambient temperature:	ure: 363 psi / 194 °F		
Size of inlet connection: DN 32			Type of connection: Size of inlet connection:			



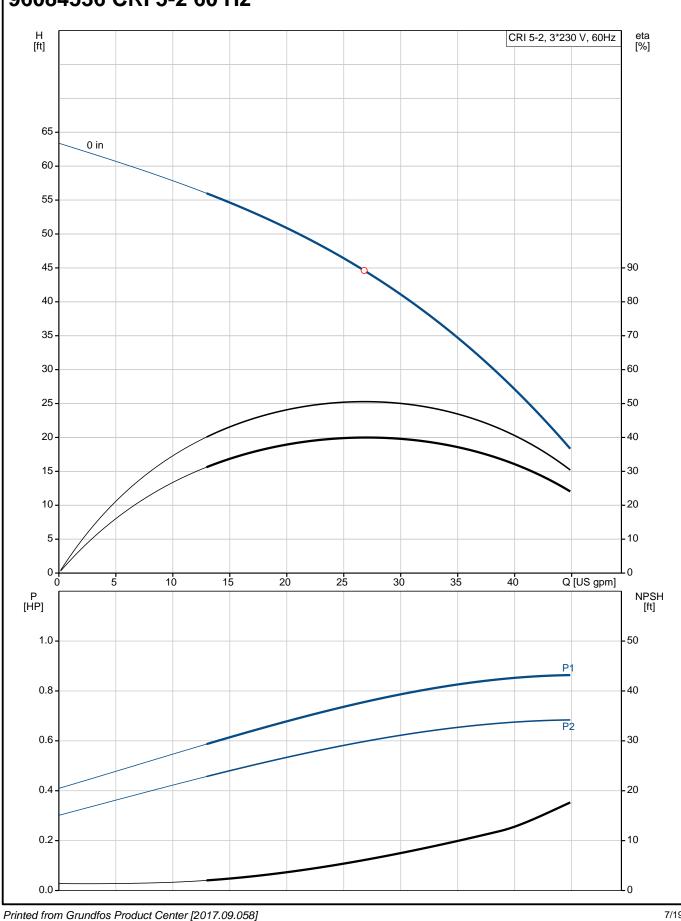
			Date:	2/20/2018	
Position	Count	Description			
		Size of suction port:	1 1/4 inch		
		Size of outlet connection:	DN 32		
		Size of outlet port:	1 1/4 inch		
		Pressure rating:	PN 25		
		Flange size for motor:	56C		
		Electrical data:			
		Motor standard:	NEMA		
		Motor type:	71BA		
		IE Efficiency class:	NA		
		Rated power - P2:	0.75 HP		
		Power (P2) required by pump: Main frequency:	0.75 HP 60 Hz		
		Rated voltage:	3 x 208-230YY/460Y V		
		Service factor:	1,25		
		Rated current:	2,40-2,30/1,20 A		
		Starting current:	590-650 %		
		Cos phi - power factor:	0,84-0,78		
		Rated speed:	3430-3460 rpm		
		Motor efficiency at full load:	79.0-80.0 %		
		Number of poles:	2		
		Enclosure class (IEC 34-5):	55 Dust/Jetting		
		Insulation class (IEC 85):	F		
		- ··			
		Others:	40.0 lb		
		Net weight: Gross weight:	42.3 lb 53.3 lb		
		Shipping volume:	4.94 ft ³		
			n		



2/20/2018

Date:

96084536 CRI 5-2 60 Hz



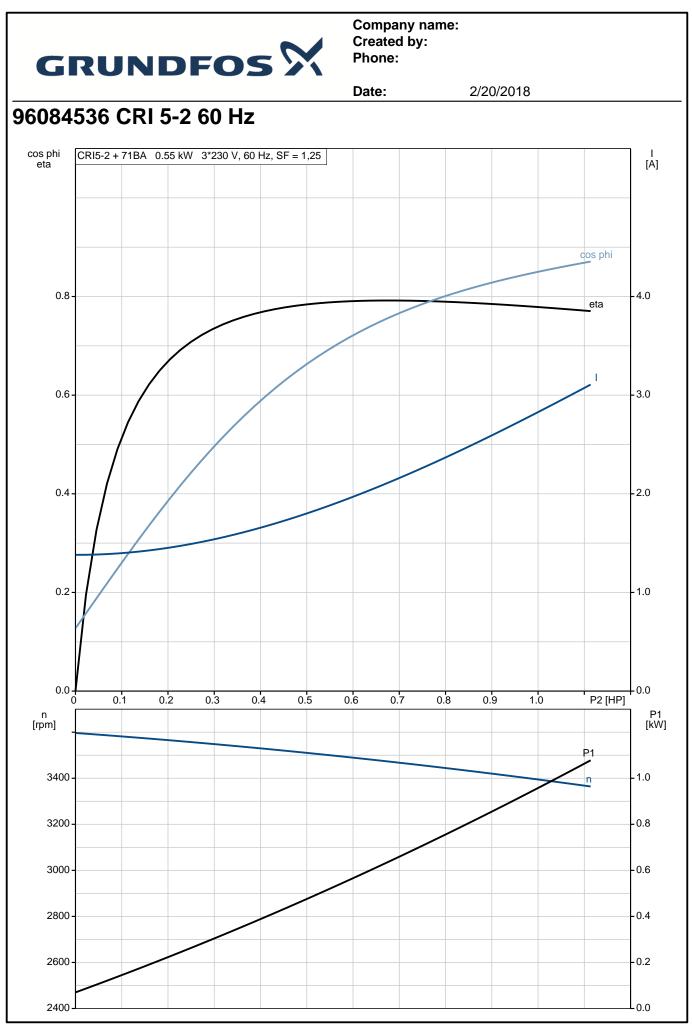


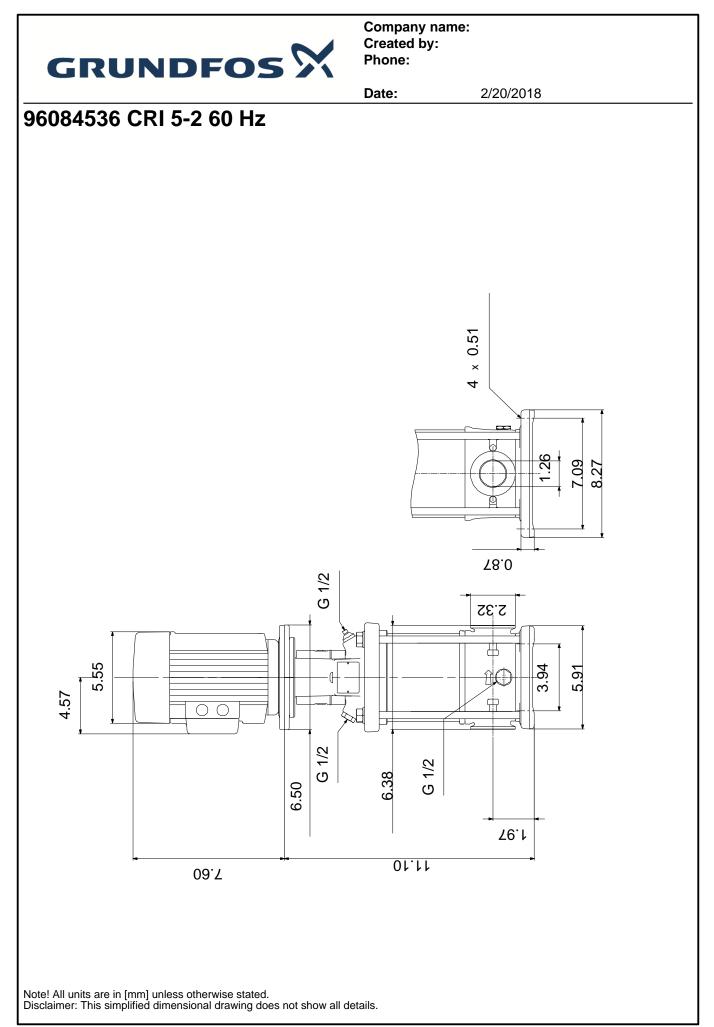
		Date:	2/20/2		
Description	Value	H [ft]		CRI 5-2, 3*230) V, 60Hz
General information:		-			
Product name:	CRI 5-2 A-CA-I-V-HQQV	_			
Product No.:	96084536	65 - 0 i	n I		
EAN:	5700395193749	60 -			
		55 -			
Fechnical:		50 -			
Speed for pump data:	3439 rpm				
Stages:	2	45 -			
mpellers:	2	40 -			
Low NPSH:	Ν	35 -			
Pump orientation:	Vertical	30 -			
Shaft seal arrangement:	Single	25 -			
Code for shaft seal:	HQQV	20 -			
Approvals on nameplate:	CURUS				
Curve tolerance:	ISO9906:2012 3B	15 -			
Pump version:	A	10-			
Model:	A	5-//			
Cooling:	TEFC	- o			
· ································		o	5 10 15 20	25 30 35 Q	[US gpm]
Materials:		P [HP]			
Base:	Stainless steel	1.0 -			
	EN 1.4408				P1
	AISI 316	0.8 -			
mpeller:	Stainless steel	0.6 -			P2
	EN 1.4301				
	AISI 304	0.4			
Material code:	1	-			
Code for rubber:	V	0.2 -			
Bearing material:	SIC	0.0			
	0.0	_1			
nstallation:			4.57		
Maximum ambient temperature:	104 °F		5.55		
Max pressure at stated temperature:	363 psi / 194 °F				
· · · · · · · · · · · · · · · · · · ·	363 psi / -4 °F	7.60			
ype of connection:	FlexiClamp	~			
Connect code:	CA	-			
Size of inlet connection:	DN 32	6	<u>G 1/2</u> G 1/2		
Size of suction port:	1 1/4 inch	-			
Size of outlet connection:	DN 32	- 10	6.38		
Size of outlet port:	1 1/4 inch		G 1/2		
Pressure rating:	PN 25	- _~ +			_
Flange size for motor:	56C	1.97			
			5.91	<u>1.26</u> 7.09	
_iquid:				8.27	
Pumped liquid:	Water				
Liquid temperature during operation:	68 °F				
Density:	62.29 lb/ft ³			7	
,				-	
Electrical data:		LOCAL CODE	T BE GROUNDED IN ACCORDANCE ATIONAL ELECTRICAL CODE AND ES BY TRAINED PERSONNEL TO		
Notor standard:	NEMA	PREVENT SE	RIOUS ELECTRICAL SHOCKS.		
fotor type:	71BA	SOURCE FR DEVICES AN	DM MOTOR AND ANY ACCESSORY D ALLOW MOTOR TO COME TO A		
E Efficiency class:	NA	COMPLETE S	STAND STILL.	-	
Rated power - P2:	0.75 HP	LOW VC 60Hz. 20 6 5			
Power (P2) required by pump:	0.75 HP		79 59 49		
Main frequency:	60 Hz	3 2	1♥ 8♥ 7♥ 1♥ 3♥ 2♥ 1♥ ∾		
Rated voltage:	3 x 208-230YY/460Y V	L3 L2	L3 L2 L1 g		
Service factor:	1,25	-	INTERCHANGE ANY TWO LINE WREES TO REVERSE BOTATION THERMOSTAT LEADS	-	
Rated current:	2,40-2,30/1,20 A		(WHEN PROVIDED) J		
	2,70 2,00/ 1,20 7				

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		Date:	2/20/2018
Description	Value		
Load current:	2,9-2,75/1,4 A		
Cos phi - power factor:	0,84-0,78		
Rated speed:	3430-3460 rpm		
Motor efficiency at full load:	79.0-80.0 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protection:	NONE		
Motor Number:	85900702		
Controls:			
Frequency converter:	NONE		
Others:			
Net weight:	42.3 lb		
Gross weight:	53.3 lb		
Shipping volume:	4.94 ft ³		

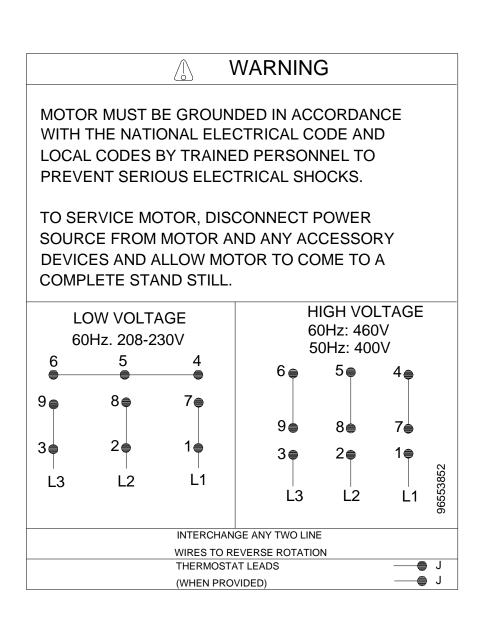






2/20/2018

96084536 CRI 5-2 60 Hz



All units are [mm] unless otherwise presented.



2/20/2018

Order Data:

Product name: CRI 5-2 A-CA-I-V-HQQV Amount: 1 Product No.: 96084536

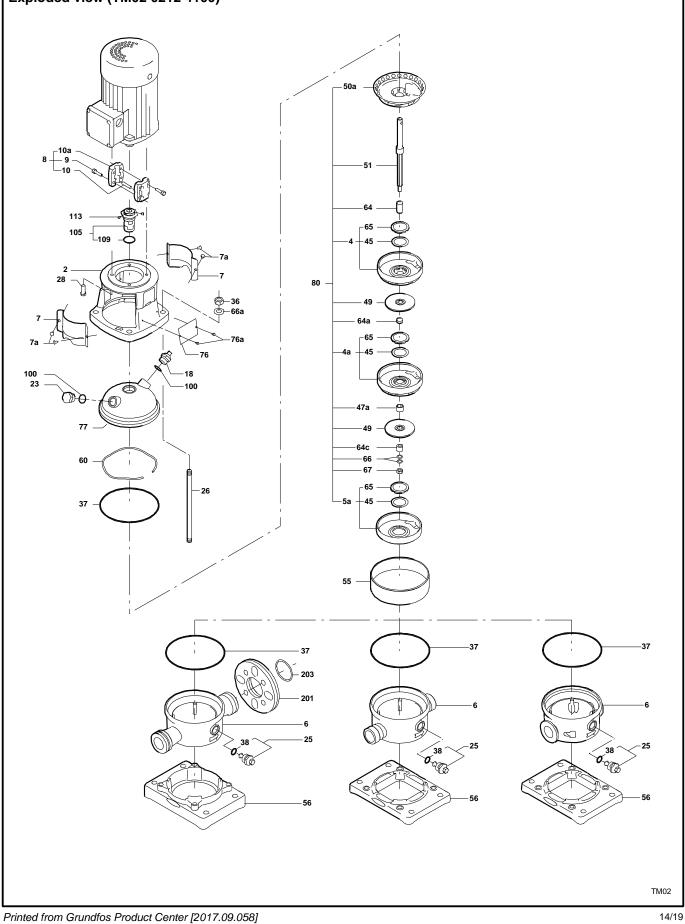
Total: Price on request

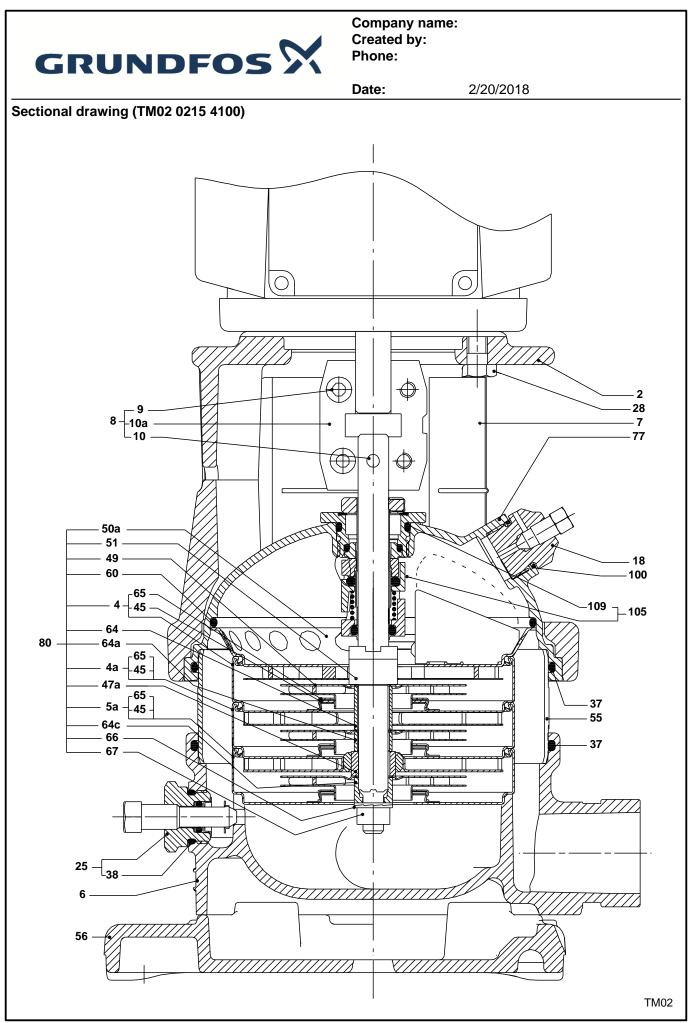


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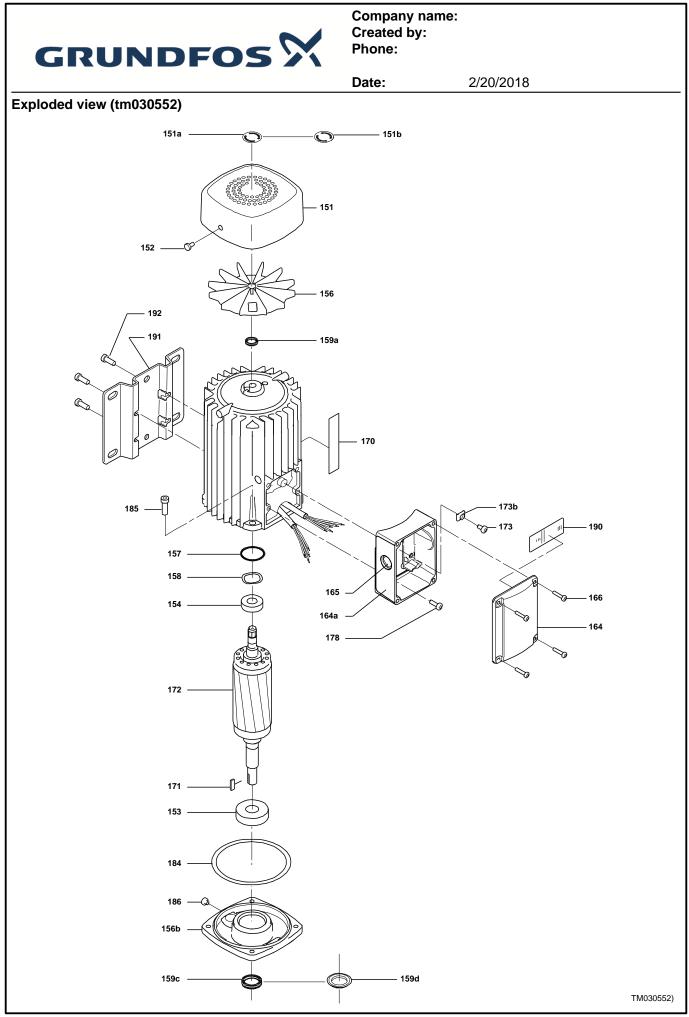
Date:

Exploded view (TM02 0212 4100)



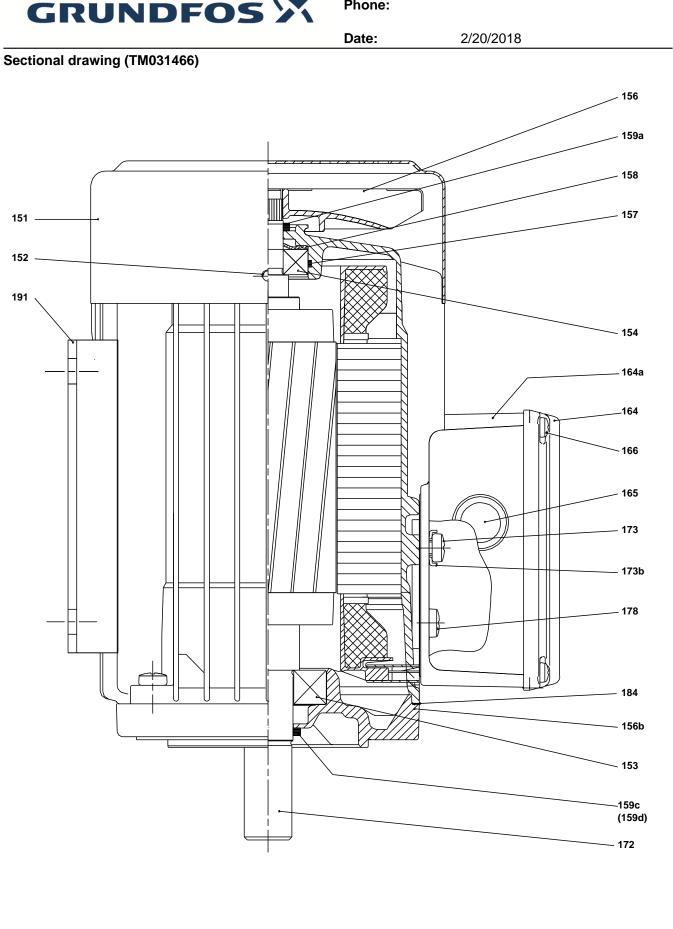


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TM031466)



Date:

2/20/2018

Parts list CRI 5-2, Prod number 96084536 Valid from 10.1.2005 (0503)

	Position	•	Annotation	Classification data	Part No.		
		Motor				1	pcs
+		Motor				1	pcs
ł		Base cpl.				1	pcs
•		Sealing parts				1	pcs
	25	Drain plug w/bypass valve				1	
3	38	O-ring		Diameter: 16,3			
				Material type: FKM			
				Thickness: 2,4			
3	37	O-ring		Diameter: 137,5		2	
				Material type: FKM			
				Thickness: 3,3			
	100	O-ring		Diameter: 16,3		2	
				Material type: FKM			
				Thickness: 2,4			
. 2	2	Pump head cpl.				1	pcs
2	2	Motor stool				1	
7	7	Coupling guard				2	
7	7a	Thread cutting screw				4	
	18	Air vent screw				1	
		Plug					
		Spindle					
2	25	Drain plug				1	
2	23	Pipe plug					
2	25	Drain plug					
2	28	Hex head cap screw		Length: 25		4	
		· · · · ·		Thread: UNC 3/8"			
6	60	Formed wire spring				1	
	77	Pump cover				1	
	8	Coupling cpl.				1	pcs
:	26	Staybolt		Length: 151		4	pcs
-		Claybon		Thread: M12		•	poo
:	36a	Washer		Designation: DIN 125 A		4	pcs
				Inner diameter: 13		•	P 00
				Outer diameter: 24			
				Thickness: 2,5			
F	55	Outer sleeve		THORIC33. 2,0		1	pcs
	55 66a	Nut		Thread: M12		4	pcs
	30a 80	Chamber stack		miedu. Wriz		1	pcs
	105	Shaft seal		Material type: HQQV		1	pcs
-	105	O-ring		Material type. Hoov		1	pcs
						1	
		O-ring				1	
		O-ring					
		Seal driver, upper				1	
		Seal driver, lower				1	
		Spacer ring				1	
		Pipe				1	
		Plug				1	
		Plug				1	
		Compression spring				1	
		Socket set screw				3	
	103	Seal ring, stationary				1	
	105	Seal ring, rotating				1	
	109	O-ring				1	

Date: 2/20/2018 Distribution Annotation Classification Part No. Count Unit	GI	RUND	FO	s۶		Company r Created by Phone:	name: ':		
						Date:	2/2	20/201	8
3 Driver 1				Annotation	Classi	ication data	Part No.		Unit
	113	Driver						1	