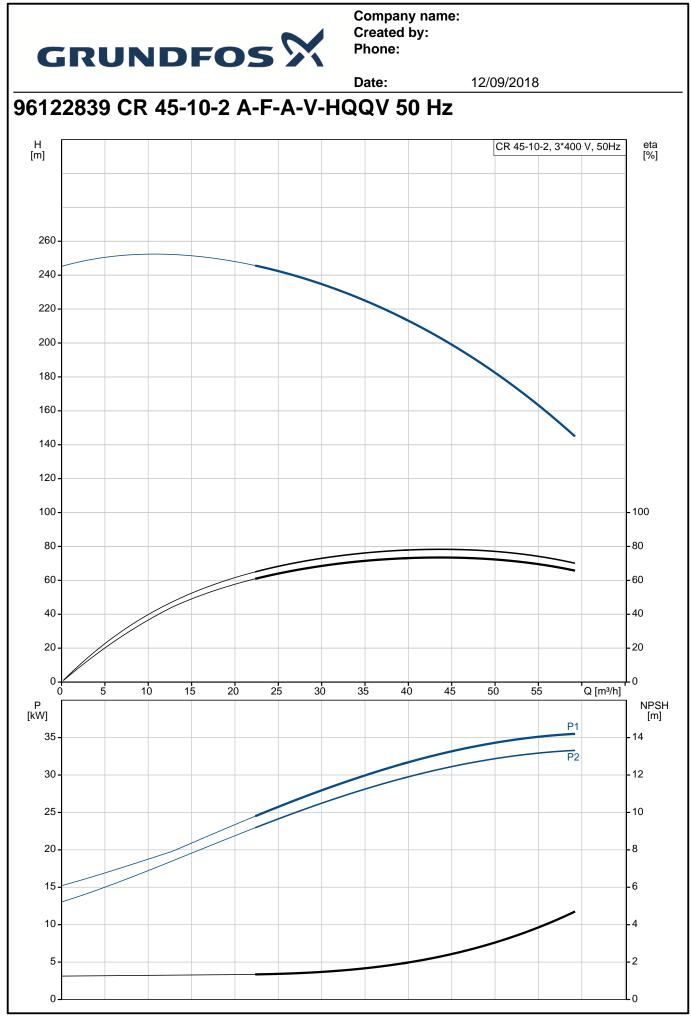
G	RI	UNDFOS	Company name: Created by: Phone:
			Date: 12/09/2018
Position	Qty.	Description	
	1	CR 45-10-2 A-F-A-V-HQQV	
		Product No.: 96122839	
		enabling installation in a horizont other wetted parts are in stainles	ump with suction and discharge ports on same the level (in-line) al one-pipe system. The pump head and base are in cast iron – all s steel. A cartridge shaft seal ensures high reliability, safe handling ower transmission is via a rigid split coupling. Pipework connection is
	The pump is fitted with a 3-phase	e, fan-cooled asynchronous motor.	
		Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operat Density:	Water -20 90 °C ion: 20 °C 998.2 kg/m <sup>3</sup>
		<b>Technical:</b> Rated flow: Rated head: Pump orientation: Shaft seal arrangement: Code for shaft seal: Approvals on nameplate: Curve tolerance:	45 m <sup>3</sup> /h 196.8 m Vertical Single HQQV CE, EAC ISO9906:2012 3B
		<b>Materials:</b> Base:	Cast iron EN 1563 EN-GJS-500-7 ASTM A536 80-55-06
		Impeller: Bearing:	Stainless steel EN 1.4301 AISI 304 SIC
		Support bearing:	Graflon
		Maximum ambient temperature:	55 °C
		Maximum operating pressure: Max pressure at stated temp:	30 bar 30 bar / 90 °C 30 bar / -20 °C
		Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connecti Flange size for motor:	DIN DN 80 DN 80
		Electrical data: Motor standard:	IEC



Company name: Created by: Phone:

			Date:	12/09/2018
osition	Qty.	Description		
		Motor type:	SIEMENS	
		IE Efficiency class:	IE3	
		Rated power - P2:	37 kW	
		Power (P2) required by pump:		
		Mains frequency:	50 Hz	
		Rated voltage:	3 x 380-420D/660-725Y V	
		Rated current:	68,0-63,0/39,0-36,0 A	
		Starting current:	670-670 %	
		Cos phi - power factor:	0.87	
		Rated speed:	2955 rpm	
		Efficiency:	IE3 93,7%	
		Motor efficiency at full load:	93.7-93.7 % 93.9-93.9 %	
		Motor efficiency at 3/4 load:		
		Motor efficiency at 1/2 load: Number of poles:	93.5-93.5 % 2	
		Enclosure class (IEC 34-5):	55 Dust/Jetting	
		Insulation class (IEC 85):	F	
			F <sup>a</sup>	
		Controls:		
		Frequency converter:	NONE	
		Others:		
		Minimum efficiency index, MEI		
		Net weight:	377 kg	
		Gross weight:	422 kg	
		Shipping volume:	0.808 m <sup>3</sup>	
		Country of origin: Custom tariff no.:	GB 84137075	
		Custom tanii no	64137075	
		1		





## Company name: Created by: Phone:

		Date:	12/09/2018	
Description	Value	H [m]	CR 45-10-2, 3*400 V, 5	0Hz et [%
General information:		-		
Product name:	CR 45-10-2 A-F-A-V-HQQV	_		
Product No:	96122839	260 -		
EAN number:	5700396688831	240 -		
Price:	9.457,00 GBP	-		
Technical:	,	220 -		
Rated flow:	45 m³/h	200 -		
Rated head:	196.8 m	180 -		
Stages:	10	-		
5		160 -		
Impellers:	10	140 -	<b>`````````````````````````````````````</b>	
Number of reduced-diameter	2	120 -		
impellers: Low NPSH:	Ν			100
		100 -		- 100
Pump orientation:	Vertical	80 -		- 80
Shaft seal arrangement:	Single	60 -		- 60
Code for shaft seal:	HQQV			
Approvals on nameplate:	CE, EAC	40 -		- 40
Curve tolerance:	ISO9906:2012 3B	20 -		- 20
Pump version:	A	0		o
Model:	В		10 20 30 40 50 Q[m	-
Materials:		Р [kW]	P1	NF [r
Base:	Cast iron		P2	
	EN 1563 EN-GJS-500-7	30 -	P2	- 12
	ASTM A536 80-55-06	25 -		- 10
Impeller:	Stainless steel			
•	EN 1.4301	20 -		- 8
	AISI 304	15-		- 6
Material code:	A	-		
Code for rubber:	V	10 -		- 4
	SIC	5 -		-2
Bearing:	Graflon	0		0
Support bearing: Installation:	Granon			0
Maximum ambient temperature:	55 °C			
Maximum operating pressure:	30 bar			
Max pressure at stated temp:	30 bar / 90 °C			
	30 bar / -20 °C			
Type of connection:	DIN			
Size of inlet connection:	DN 80			
Size of outlet connection:	DN 80			
Pressure rating for pipe connection:	PN 40			
Flange size for motor:	FF350			
Connect code:	F			
Liquid:				
Pumped liquid:	Water			
Liquid temperature range:	-20 90 °C			
Liquid temperature during operation:	20 °C			
Density:	998.2 kg/m <sup>3</sup>			
Electrical data:	555.2 kg/m			
Motor standard:	IEC			
Motor type:	SIEMENS			
IE Efficiency class:	IE3			
Rated power - P2:	37 kW			
Power (P2) required by pump:	37 kW			
Mains frequency:	50 Hz			
Rated voltage:	3 x 380-420D/660-725Y V			
Rated current:	68,0-63,0/39,0-36,0 A			
Starting current:	670-670 %			
Cos phi - power factor:	0.87			



Company name: Created by: Phone:

Date: 12/09/2018 Description Value Rated speed: 2955 rpm Efficiency: IE3 93,7% Motor efficiency at full load: 93.7-93.7 % Motor efficiency at 3/4 load: 93.9-93.9 % Motor efficiency at 1/2 load: 93.5-93.5 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F PTC Motor protec: Motor No: 81U15334 Controls: NONE Frequency converter: Others: Minimum efficiency index, MEI : 0.7 Net weight: 377 kg Gross weight: 422 kg Shipping volume: 0.808 m<sup>3</sup> Country of origin: GB Custom tariff no .: 84137075

