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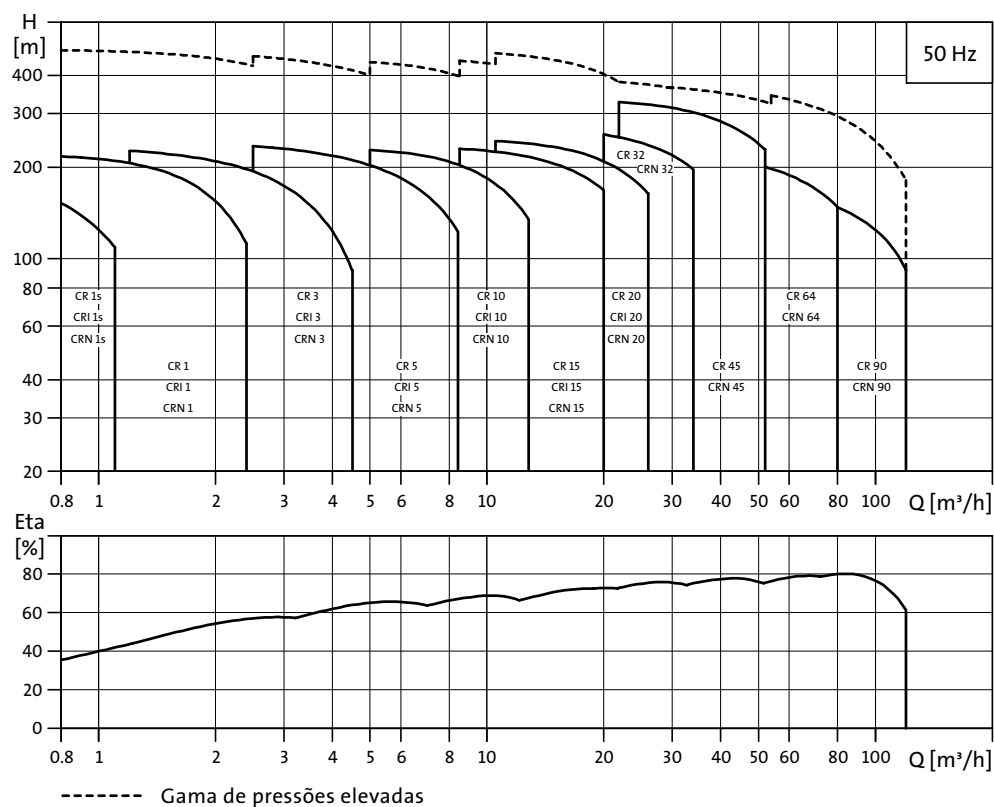


CR 15, CRI 15, CRN 15, CRE 15, CRIE 15, CRNE 15

Bombas Centrífugas Verticais Multicelulares
50 Hz

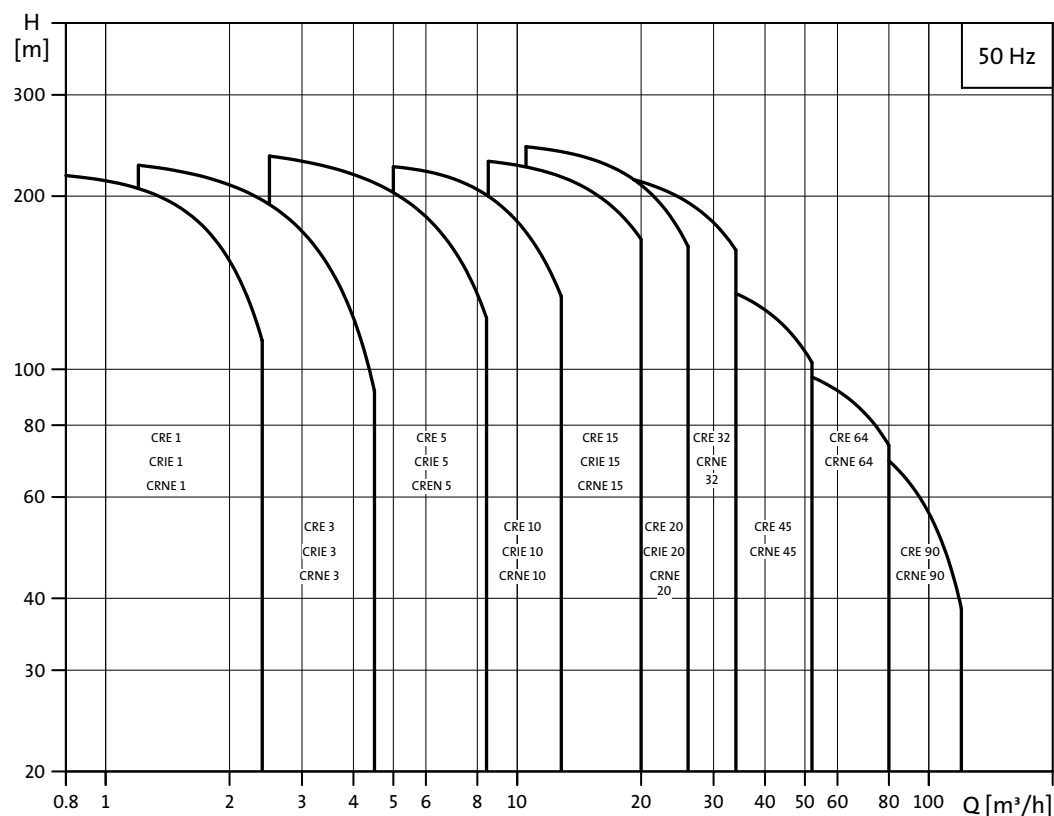


Gama de desempenho - CR, CRI, CRN

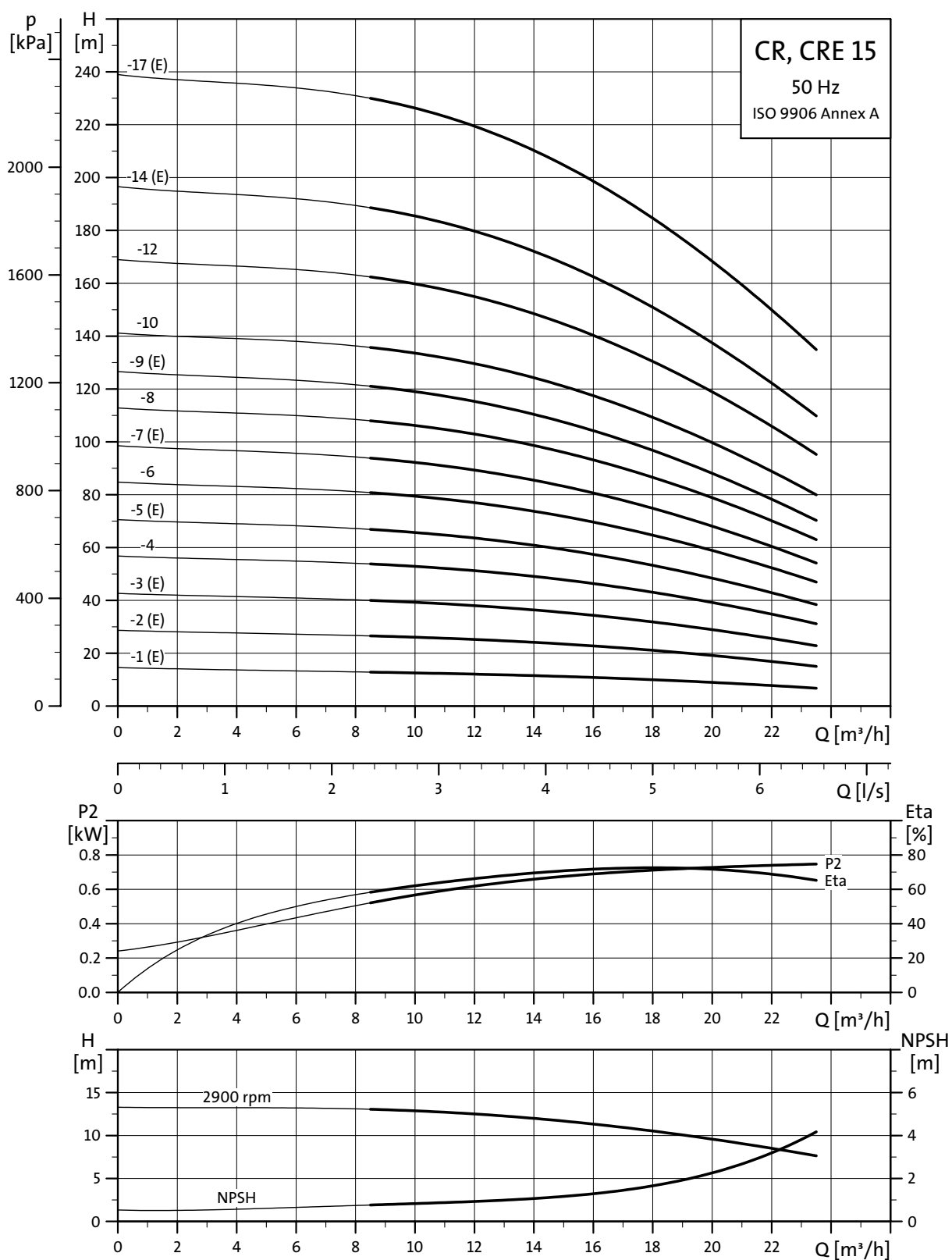


TM02 1192 2503

Gama de desempenho - CRE, CRIE, CRNE



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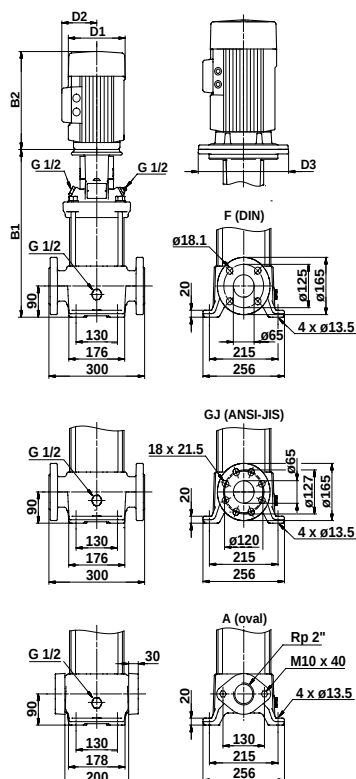
TM02 7298 3103

Características Técnicas

CR 15
CRE 15

Dimensões e características eléctricas

3 x 380-415 V, 50 Hz



Tipo de bomba	Motor P ₂ [kW]	CR				CRE
		I _{1/1} [A]	Cos φ _{1/1}	η [%]	$\frac{I_{Arr}}{I_{1/1}}$	I _{1/1} [A]
CR(E) 15-1★	1,1	2,65	0,87-0,79	81,0-81,0	5,2-5,7	7,4-6,8
CR(E) 15-2	2,2	4,75	0,87-0,82	84,0-84,0	7,0-7,6	4,6-3,8
CR(E) 15-3	3,0	6,4/6,4	0,87-0,80	85,0-85,0	8,0-8,6	6,4-5,2
CR 15-4	4,0	8,00	0,90-0,87	87,0-87,0	8,7-9,5	-
CR(E) 15-5	4,0	8,00	0,90-0,87	87,0-87,0	8,7-9,5	8,1-6,6
CR 15-6	5,5	11,0	0,89-0,86	87,5-87,5	8,9-9,7	-
CR(E) 15-7	5,5	11,0	0,89-0,86	87,5-87,5	8,9-9,7	11,0-8,8
CR 15-8	7,5	15,2	0,87-0,81	88,0-88,0	9,1-9,9	-
CR(E) 15-9	7,5	15,2	0,87-0,81	88,0-88,0	9,1-9,9	15,0-12,0
CR 15-10	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	-
CR 15-12	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	-
CR(E) 15-14	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	21,3
CR(E) 15-17	15,0	28,7	0,87	90,0	6,0	28,1

TM02 6576 1003

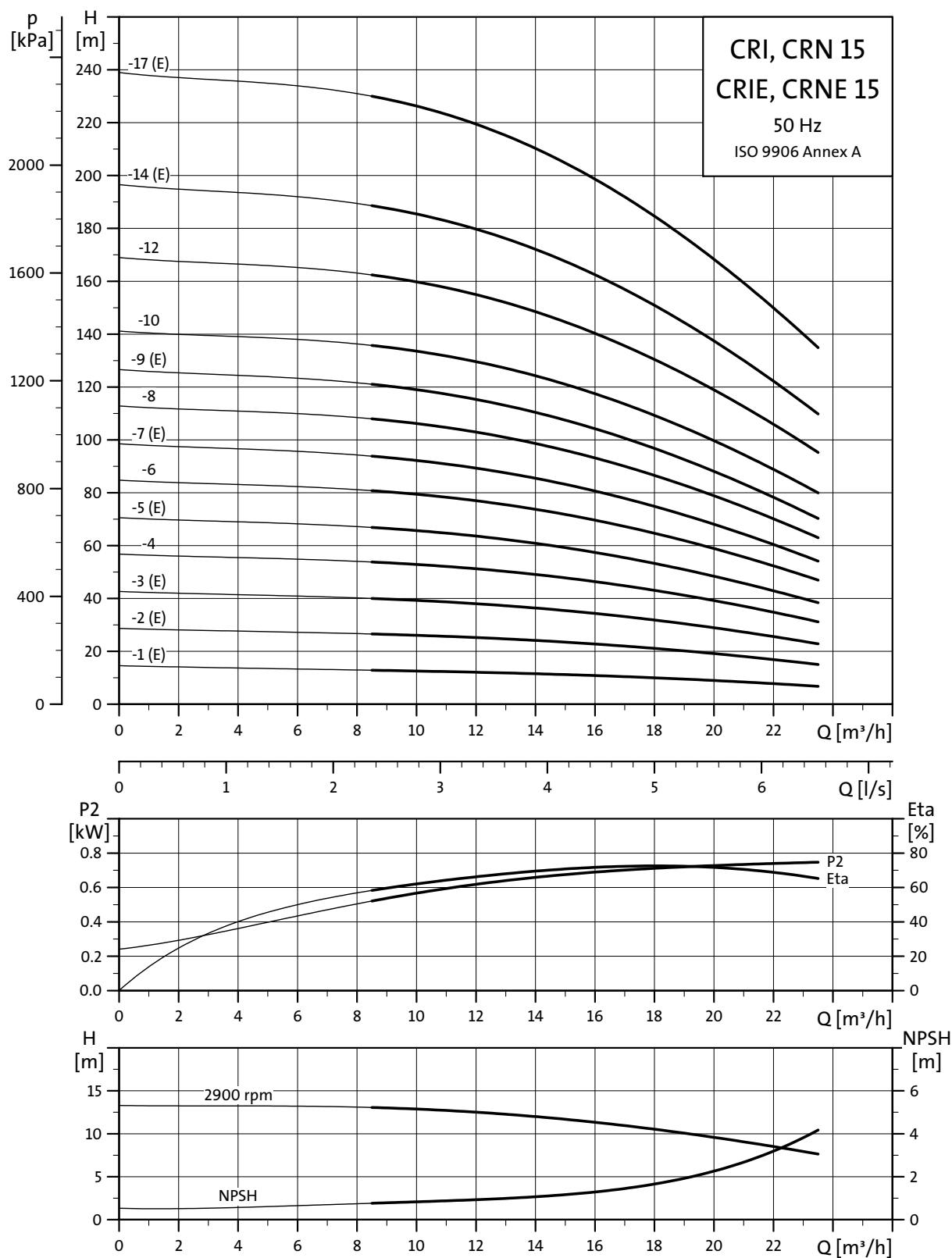
★ A bomba CRE está equipada com um motor monofásico (1x220-240 V)

Dimensões e Pesos

Tipo de bomba	CR									CRE								
	Dimensões [mm]						Peso líquido [kg]			Dimensões [mm]						Peso líquido [kg]		
	Flange oval		Flange DIN		D1	D2	D3	Flange oval	Flange DIN	Flange oval		Flange DIN		D1	D2	D3	Flange oval	Flange DIN
	B1	B1+B2	B1	B1+B2						B1	B1+B2							
CR(E) 15-1	400	631	400	631	141	109	-	40,0	41,0	400	681	400	681	178	167	-	36,9	37,9
CR(E) 15-2	415	696	415	696	178	110	-	49,0	50,0	415	736	415	736	178	167	-	59,5	60,5
CR(E) 15-3	465	800	465	800	198	120	-	54,0	55,0	465	800	465	800	198	177	-	63,0	64,0
CR 15-4	510	882	510	882	220	134	-	66,0	66,0	-	-	-	-	-	-	-	-	-
CR(E) 15-5	555	927	555	927	220	134	-	67,0	68,0	555	927	555	927	220	188	-	78,3	79,3
CR 15-6	632	1023	632	1023	220	134	300	89,0	90,0	-	-	-	-	-	-	-	-	-
CR(E) 15-7	677	1068	677	1068	220	134	300	91,0	92,0	677	1068	677	1068	220	188	298	103,9	104,9
CR 15-8	-	-	722	1113	220	134	300	-	95,0	-	-	-	-	-	-	-	-	-
CR(E) 15-9	-	-	767	1158	220	134	300	-	97,0	-	-	767	1158	220	188	298	-	108,7
CR 15-10	-	-	889	1353	260	172	352	-	129,0	-	-	-	-	-	-	-	-	-
CR 15-12	-	-	979	1443	260	172	352	-	130,0	-	-	-	-	-	-	-	-	-
CR(E) 15-14	-	-	1069	1533	260	172	352	-	136,0	-	-	1069	1518	258	359	350	-	188,0
CR(E) 15-17	-	-	1204	1682	306	197	352	-	155,0	-	-	1204	1665	313	377	350	-	190,5

Curvas Características

CRI, CRN 15
CRIE, CRNE 15



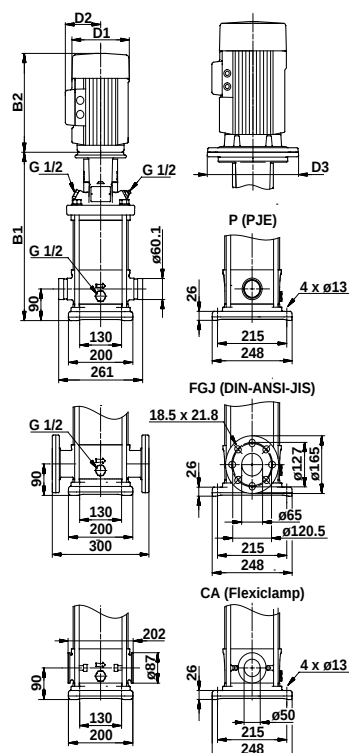
TM02 7299 3103

Características Técnicas

CRI, CRN 15
CRIE, CRNE 15

Dimensões e características eléctricas

3 x 380-415 V, 50 Hz



Tipo de bomba	Motor P ₂ [kW]	CRI, CRN				CRIE, CRNE
		I _{1/1} [A]	Cos φ _{1/1}	η [%]	$\frac{I_{Arr}}{I_{1/1}}$	
CRI(E), CRN(E) 15-1★	1,1	2,65	0,87-0,79	81,0-81,0	5,2-5,7	7,4-6,8
CRI(E), CRN(E) 15-2	2,2	4,75	0,87-0,82	84,0-84,0	7,0-7,6	4,6-3,8
CRI(E), CRN(E) 15-3	3,0	6,4/6,4	0,87-0,80	85,0-85,0	8,0-8,6	6,4-5,2
CRI, CRN 15-4	4,0	8,00	0,90-0,87	87,0-87,0	8,7-9,5	-
CRI(E), CRN(E) 15-5	4,0	8,00	0,90-0,87	87,0-87,0	8,7-9,5	8,1-6,6
CRI, CRN 15-6	5,5	11,0	0,89-0,86	87,5-87,5	8,9-9,7	-
CRI(E), CRN(E) 15-7	5,5	11,0	0,89-0,86	87,5-87,5	8,9-9,7	11,0-8,8
CRI, CRN 15-8	7,5	15,2	0,87-0,81	88,0-88,0	9,1-9,9	-
CRI(E), CRN(E) 15-9	7,5	15,2	0,87-0,81	88,0-88,0	9,1-9,9	15,0-12,0
CRI, CRN 15-10	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	-
CRI, CRN 15-12	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	-
CRI(E), CRN(E) 15-14	11,0	21,5	0,91-0,87	90,0-90,0	7,3-8,0	21,3
CRI(E), CRN(E) 15-17	15,0	28,7	0,87	90,0	6,0	28,1

TM02 6577 1003

★ As bombas CRIE e CRNE estão equipadas com um motor monofásico (1x220-240 V)

Dimensões e Pesos

Tipo de bomba	CR									CRE										
	Dimensões [mm]						Peso líquido [kg]			Dimensões [mm]						Peso líquido [kg]				
	PJE/CA ★		Flange DIN		D1	D2	D3	PJE/CA ★	Flange DIN	PJE/CA ★		Flange DIN		D1	D2	D3	PJE/CA ★	Flange DIN		
	B1	B1+B2	B1	B1+B2						B1	B1+B2	B1	B1+B2							
CRI(E), CRN(E) 15-1	397	628	397	628	141	109	-	33,0	38,0	397	678	397	678	178	167	-	29,9	34,9		
CRI(E), CRN(E) 15-2	412	693	412	693	178	110	-	42,0	47,0	412	733	412	733	178	167	-	52,5	57,5		
CRI(E), CRN(E) 15-3	462	797	462	797	198	120	-	48,0	52,0	462	797	462	797	198	177	-	57,0	61,0		
CRI, CRN 15-4	507	879	507	879	220	134	-	59,0	64,0	-	-	-	-	-	-	-	-	-		
CRI(E), CRN(E) 15-5	552	924	552	924	220	134	-	60,0	65,0	552	924	552	924	220	188	-	71,3	76,3		
CRI, CRN 15-6	629	1020	629	1020	220	134	300	82,0	87,0	-	-	-	-	-	-	-	-	-		
CRI(E), CRN(E) 15-7	674	1065	674	1065	220	134	300	84,0	88,0	674	1065	674	1065	220	188	298	96,9	100,9		
CRI, CRN 15-8	719	1110	719	1110	220	134	300	88,0	92,0	-	-	-	-	-	-	-	-	-		
CRI(E), CRN(E) 15-9	764	1155	764	1155	220	134	300	89,0	94,0	764	1155	764	1155	220	188	298	100,7	105,7		
CRI, CRN 15-10	886	1350	886	1350	260	172	352	121,0	126,0	-	-	-	-	-	-	-	-	-		
CRI, CRN 15-12	976	1440	976	1440	260	172	352	125,0	130,0	-	-	-	-	-	-	-	-	-		
CRI(E), CRN(E) 15-14	1066	1530	1066	1530	260	172	352	128,0	133,0	1066	1515	1066	1515	258	359	350	180,0	185,0		
CRI(E), CRN(E) 15-17	1201	1679	1201	1679	306	197	352	146,0	151,0	1201	1662	1201	1662	313	377	350	181,5	186,5		

★ CA é o código para o acoplamento FlexiClamp.

BE > THINK > INNOVATE >

Ser responsável é a nossa base
Pensar mais além torna tudo possível
A inovação é a essência de tudo o que fazemos



96 50 23 04 02 04	P
Repl. 96 50 23 04 02 03	

Sujeito a alterações

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GRUNDFOS 