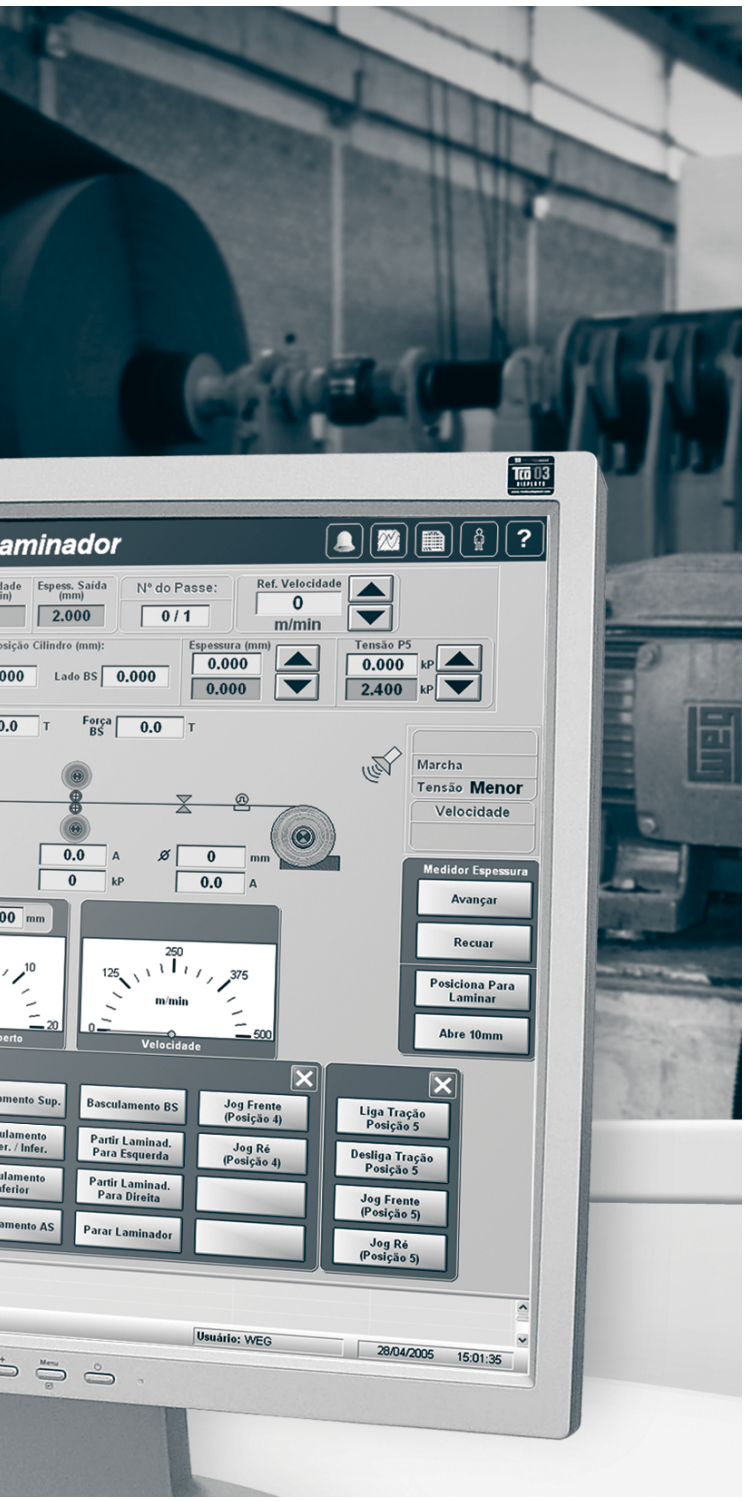
Automação

Inversores de Frequência

Inversores de Frequência



São destinados ao controle e variação de velocidade de motores elétricos de indução trifásicos e podem ser utilizados nos mais diversos segmentos industriais.

A linha de inversores de frequência CFW possui as seguintes características:

- Instalação e operação simples
- Fácil parametrização
- Alto grau de compactação
- *Design* moderno
- Protegem o motor de forma eficaz
- *Softwares* de programação gratuitos
- Funções especiais
- Excelente custo benefício

IPI REDUZIDO
Produto beneficiado pela Lei da Informática

Principais Aplicações

- Ventiladores / exaustores
- Bombas centrifugas/dosadoras
- Aplicações multibombas / multimotores
- Esteiras transportadoras
- Compressores
- Máquinas em geral (OEMs)
- Agitadores / misturadores
- Extrusoras
- Laminadores
- Rebobinadoras de papel
- Fornos de cimento
- Esmaltadeiras
- Granuladores / paletizadoras
- Injetoras / sopradoras
- Máquinas de corte e solda
- Fornos de cimento

Certificações

CFW10

Características

- Instalação simplificada, programação flexível e fácil operação
- Dimensões compactas, ótimo custo benefício
- Modelos *Standard*, *Clean*, *Plus* e *Cold Plate*
- Controle escalar (V/F) linear ou quadrático ajustável
- Tensão de alimentação / Corrente nominal de saída:
  110-127 V CA monofásica: 1,6 a 4,0 A (0,25 a 1,0 cv)
  200-240 V CA monofásica: 1,6 a 10,0 A (0,25 a 3,0 cv)
  200-240 V CA trifásica: 1,6 a 15,0 A (0,25 a 5,0 cv)
- 4 entradas digitais, 1 saída digital a relé programável (*)
- 1 entrada analógica isolada (*)
- Interface de operação com diagnóstico e *display* de LED com 3 digitos
- IGBT de frenagem
- IP20
- Funções de controle: rampa linear ou S na aceleração e desaceleração, ajuste manual de torque, compensação de escorregamento, potenciômetro eletrônico, regulador PID, até 8 velocidades fixas pré-confguradas, JOG, frenagem CC
- Funções de diagnóstico: sobrecorrente na saída, sobrecarga no motor, sobretemperatura no dissipador, curto-circuito na saída, defeito externo

Nota: (*) Modelo Clean não tem entrada analógica nem saída digital.

CFW10 - Especificação

Modelo *Standard*

Tensão de alimentação (V CA)		Inversor de frequência CFW10			Motor máximo aplicável (*)		
		Referência	Tamanho	Corrente nominal de saída (A)	Tensão de alimentação (V CA)	Potência	
						cv	kW
127	Monofásica	CFW100016S1112PSZ	1	1,6	220	0,25	0,18
		CFW100026S1112PSZ		2,6		0,5	0,37
		CFW100040S1112PSZ	2	4,0		1,0	0,75
220		CFW100016S2024PSZ	1	1,6		0,25	0,18
		CFW100026S2024PSZ		2,6		0,5	0,37
		CFW100040S2024PSZ		4,0		1,0	0,75
		CFW100073S2024PSZ	2	7,3		2,0	1,5
		CFW100100S2024PSZ	3	10,0		3,0	2,2
220	Trifásica	CFW100016T2024PSZ	1	1,6	220	0,25	0,18
		CFW100026T2024PSZ		2,6		0,5	0,37
		CFW100040T2024PSZ		4,0		1,0	0,75
		CFW100073T2024PSZ		7,3		2,0	1,5
		CFW100100T2024PSZ	2	10,0		3,0	2,2
		CFW100152T2024PSZ	3	15,0		5,0	3,7

Modelo *Cold Plate* - para Montagem em Superfície de Dissipação[1]

Tensão de alimentação (V CA)		Inversor de frequência CFW10			Motor máximo aplicável (*)		
		Referência	Tamanho	Corrente nominal de saída (A)	Tensão de alimentação (V CA)	Potência	
						cv	Kw
127	Monofásica	CFW100016S1112POCPZ	Consulte o manual do usuário	1,6	220	0,25	0,18
		CFW100026S1112POCPZ		2,6		0,5	0,37
		CFW100040S1112POCPZ		4,0		1,0	0,75
220		CFW100016S2024POCPZ		1,6		0,25	0,18
		CFW100026S2024POCPZ		2,6		0,5	0,37
		CFW100040S2024POCPZ		4,0		1,0	0,75
		CFW100073S2024POCPZ		7,3		2,0	1,5
		CFW100100S2024POCPZ		10,0		3,0	2,2
220	Trifásico	CFW100016T2024POCPZ		1,6	220	0,25	0,18
		CFW100026T2024POCPZ		2,6		0,5	0,37
		CFW100040T2024POCPZ		4,0		1,0	0,75
		CFW100073T2024POCPZ		7,3		2,0	1,5
		CFW100100T2024POCPZ		10,0		3,0	2,2
		CFW100152T2024POCPZ		15,0		5,0	3,7

Notas:
(1) Para aplicações com a versão "Cold Plate" consulte o departamento de vendas e o manual do usuário do CFW10.
(*) As potências dos motores são apenas orientativas, válidas para motores WEG standard de IV pólos, frequência de 60 Hz, tensão de 127 ou 220 V CA.
O dimensionamento deve ser feito em função da corrente nominal do motor utilizado, que deve ser menor ou igual a corrente nominal de saída do CFW10.

CFW08

Características

- Instalação simplificada e fácil operação
- Dimensões compactas
- Modelos *Standard*, Plus e IP56/Nema 4x
- Controle escalar (V/F) ou vetorial (VVW)
- Tensão de alimentação/corrente nominal:
  200-240 V CA (monofásica ou trifásica) /
  1,6 A até 10 A (0,25 a 3,0 cv)
  200-240 V CA / 7 até 33 A (2 até 2,5 cv)
  380-480 V CA / 1 até 30 A (0,25 até 20,0 cv)
- Controle multibombas
- Acessórios opcionais
- Comunicação em rede

CFW08 - Especificação

Modelo *Standard*

Tensão de alimentação (V CA)		Inversor de frequência CFW08			Máximo motor aplicável (*)		
		Referência	Tamanho	Corrente nominal de saída (A)	Tensão de alimentação (V CA)	Potência	
						cv	kW
220	Monofásica	CFW080016S2024PSZ	1	1,6	220	0,25	0,18
		CFW080026S2024PSZ	1	2,6		0,5	0,37
		CFW080040S2024PSZ	1	4,0		1,0	0,75
	Monofásica ou Trifásica	CFW080016B2024PSZ	1	1,6		0,25	0,18
		CFW080026B2024PSZ	1	2,6		0,5	0,37
		CFW080040B2024PSZ	1	4,0		1,0	0,75
		CFW080073B2024PSZ *	2	7,3		2,0	1,5
		CFW080100B2024PSZ *	2	10,0		3,0	2,2
	Trifásica	CFW080070T2024PSZ	1	7,0		2,0	1,5
		CFW080160T2024PSZ *	2	16,0		5,0	3,7
		CFW080170T2024POH3Z*	2	17,0		5,0	3,7
		CFW080220T2024PSZ *	3	22,0		7,5	5,5
		CFW080280T2024PSZ *	4	28,0		10,0	7,5
		CFW080330T2024PSZ *	4	33,0		12,5	9,0
380 ou 480	Trifásica	CFW080010T3848PSZ	1	1,0	380 ou 440	0,25	0,18
		CFW080016T3848PSZ	1	1,6		0,5	0,37
		CFW080026T3848PSZ	1	2,6		1,0	0,75
		CFW080040T3848PSZ	1	4,0		2,0	1,5
		CFW080027T3848PSZ *	2	2,7		1,5	1,1
		CFW080043T3848PSZ *	2	4,3		2,0	1,5
		CFW080065T3848PSZ *	2	6,5		3,0	2,2
		CFW080100T3848PSZ *	2	10,0		5,0	3,7
		CFW080130T3848PSZ *	3	13,0		7,5	5,5
		CFW080160T3848PSZ *	3	16,0		10,0	7,5
		CFW080240T3848PSZ *	4	24,0		15,0	11,0
		CFW080300T3848PSZ *	4	30,0		20,0	15,0

Nota: (*) Frenagem reostática incorporada.

CFW700

- Tensão de alimentação
  - 220 V CA monofásica:
    Corrente nominal de saída de 6,0 a 10,0 A (1,5 a 3,0 cv)
  - 220 V CA trifásica:
    Corrente nominal de saída de 6,0 a 211,0 A (1,5 a 75,0 cv)
  - 380-480 V CA trifásica:
    Corrente nominal de saída 3,6 a 211,0 A (2,0 a 175,0 cv)

Características

Tecnologia

- *Vectrue Technology®*
- Frenagem Ótima - *Optimal Braking®*
- Fluxo Ótimo®
- *Softwares* gratuitos Superdrive G2 e WLP
- Função SoftPLC
- Interface de operação com *display* gráfico e *backlight*
- Sistema inteligente de refrigeração
- Alta precisão

Flexibilidade

- Filosofia *plug and play*
- Indutor incorporado no *link* CC
- IGBT de frenagem
- Barramento CC único
- Tamanho reduzido
- Robustez de *hardware*

Opcionais e Acessórios

- Módulo de parada de segurança
- Módulos de comunicação em rede
- Módulo de memória *flash*
- Interface de operação remota
- Filtro RFI
- Alimentação externa do controle

Moldura para montagem remota RHMIF-02.

CFW700 - Especificação

Inversor de frequência CFW700									
Regime de sobrecarga								Referência	Tamanho
Normal = Normal *Duty* (ND)				Pesada = *Heavy Duty* (HD)					
Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)	Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)		
Nominal	1 min	3 seg		Nominal	1 min	3 seg			
Tensão de saída do inversor 220 V CA trifásica - Tensão de alimentação do inversor 220 V CA monofásica									
6,0	6,6	9,0	1,5 (1,1)	5,00	7,50	10,00	1,5 (1,1)	CFW700A06P0S2DB20	A
7,0	7,7	10,5	2,0 (1,5)	7,00	10,50	14,00	2,0 (1,5)	CFW700A07P0S2DB20	
10,0	11,0	15,0	3,0 (2,2)	10,00	15,00	20,00	3,0 (2,2)	CFW700A10P0S2DB20	
Tensão de saída do inversor 220 V CA trifásica - Tensão de alimentação do inversor 220 V CA monofásica ou trifásica									
6,0	6,6	9,0	1,5 (1,1)	5,00	7,50	10,00	1,5 (1,1)	CFW700A06P0B2DB20	A
7,0	7,7	10,5	2,0 (1,5)	7,00	10,50	14,00	2,0 (1,5)	CFW700A07P0B2DB20	
Tensão de saída do inversor 220 V CA trifásica - Tensão de alimentação do inversor 220 V CA trifásica									
7,0	7,7	10,5	2,0 (1,5)	5,5	8,3	11,0	1,5 (1,1)	CFW700A07P0T2DB20	A
10,0	11,0	15,0	3,0 (2,20)	8,0	12,0	16,0	2,0 (1,5)	CFW700A10P0T2DB20	
13,0	14,3	19,5	4,0 (3,0)	11,0	16,5	22,0	3,0 (2,2)	CFW700A13P0T2DB20	
16,0	17,6	24,0	5,0 (3,7)	13,0	19,5	26,0	4,0 (3,0)	CFW700A16P0T2DB20	
24,0	26,4	36,0	7,5 (5,5)	20,0	30,0	40,0	6,0 (4,5)	CFW700B24P0T2DB20	B
28,0	30,8	42,0	10 (7,5)	24,0	36,0	48,0	7,5 (5,5)	CFW700B28P0T2DB20	
33,5	36,9	50,3	12,5 (9,2)	28,0	42,0	56,0	10 (7,5)	CFW700B33P5T2DB20	
45,0	49,5	67,5	15,0 (11,0)	36,0	54,0	72,0	12,5 (9,2)	CFW700C45P0T2DB20	C
54,0	59,4	81,0	20,0 (15,0)	45,0	67,5	90,0	15,0 (11,0)	CFW700C54P0T2DB20	
70,0	77,0	105,0	25,0 (18,5)	56,0	84,0	112,0	20,0 (15,0)	CFW700C70P0T2DB20	
86,0	94,6	129,0	30,0 (22,0)	70,0	105,0	140,0	25,0 (18,5)	CFW700D86P0T2DBN1	D
105,0	116,0	158,0	40,0 (30,0)	86,0	129,0	172,0	30,0 (22,0)	CFW700D0105T2DBN1	
142,0	156,2	213,0	50,0 (37,0)	115,00	172,50	230,00	40,0 (30,0)	CFW700E0142T2NB20C3	E
180,0	198,0	270,0	60,0 (45,0)	142,00	213,00	284,00	50,0 (37,0)	CFW700E0180T2NB20C3	
211,0	232,0	317,0	75,0 (55,0)	180,00	270,00	360,00	75,0 (55,0)	CFW700E0211T2NB20C3	
Tensão de saída do inversor 380 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,60	5,40	7,20	2,0 (1,5)	CFW700A03P6T4DB20	A
5,0	5,5	7,5	3,0 (2,2)	5,00	7,50	10,00	3,0 (2,2)	CFW700A05P0T4DB20	
7,0	7,7	10,5	4,0 (3,0)	5,50	8,25	11,00	3,0 (2,2)	CFW700A07P0T4DB20	
10,0	11,0	15,0	6,0 (4,5)	10,00	15,00	20,00	6,0 (4,5)	CFW700A10P0T4DB20	
13,5	14,9	20,3	7,5 (5,5)	11,00	16,50	22,00	6,0 (4,5)	CFW700A13P5T4DB20	
17,0	18,7	25,5	10,0 (7,5)	13,50	20,30	27,00	7,5 (5,5)	CFW700B17P0T4DB20	B
24,0	26,4	36,0	15,0 (11,0)	19,00	28,50	38,00	10,0 (7,5)	CFW700B24P0T4DB20	
31,0	34,1	46,5	20,0 (15,0)	25,00	37,50	50,00	15,0 (11,0)	CFW700B31P0T4DB20	
38,0	41,8	57,0	25,0 (18,5)	33,00	49,50	66,00	20,0 (15,0)	CFW700C38P0T4DB20	C
45,0	49,5	67,5	30,0 (22,0)	38,00	57,00	76,00	25,0 918,5)	CFW700C45P0T4DB20	
58,5	64,4	87,8	40,0 (30,0)	47,00	70,50	94,00	30,0 (22,0)	CFW700C58P5T4DB20	
70,5	77,6	106,0	50,0 (37,0)	61,00	91,50	122,00	40,0 (30,0)	CFW700D70P5T4DBN1	D
88,0	96,8	132,0	60,0 (45,0)	73,00	110,00	146,00	50,0 (37,0)	CFW700D88P0T4DBN1	
105,0	115,5	157,0	75,0 (55,0)	88,00	132,00	176,00	60,0 (45,0)	CFW700E0105T4NB20C3	E
142,0	156,2	213,0	100,0 (75,0)	115,00	172,50	230,00	75,0 (55,0)	CFW700E0142T4NB20C3	
180,0	198,0	270,0	125,0 (90,0)	142,00	213,00	284,00	100,0 (75,0)	CFW700E0180T4NB20C3	
211,0	232,1	317,0	150,0 (110,0)	180,00	270,00	360,00	125,0 (90,0)	CFW700E0211T4NB20C3	
Tensão de saída do inversor 440 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,60	5,40	7,20	2,0 (1,5)	CFW700A03P6T4DB20	A
5,0	5,5	7,5	3,0 (2,2)	5,00	7,50	10,00	3,0 (2,2)	CFW700A05P0T4DB20	
7,0	7,7	10,5	4,0 (3,0)	5,50	8,25	11,00	3,0 (2,2)	CFW700A07P0T4DB20	
10,0	11,0	15,0	6,0 (4,5)	10,00	15,00	20,00	6,0 (4,5)	CFW700A10P0T4DB20	
13,5	14,9	20,3	7,5 (5,5)	11,00	16,50	22,00	6,0 (4,5)	CFW700A13P5T4DB20	
17,0	18,7	25,5	10,0 (7,5)	13,50	20,30	27,00	7,5 (5,5)	CFW700B17P0T4DB20	B
24,0	26,4	36,0	15,0 (11,0)	19,00	28,50	38,00	10,0 (7,5)	CFW700B24P0T4DB20	
31,0	34,1	46,5	20,0 (15,0)	25,00	37,50	50,00	15,0 (11,0)	CFW700B31P0T4DB20	
38,0	41,8	57,0	25,0 (18,5)	33,00	49,50	66,00	20,0 (15,0)	CFW700C38P0T4DB20	C
45,0	49,5	67,5	30,0 (22,0)	38,00	57,00	76,00	25,0 918,5)	CFW700C45P0T4DB20	
58,5	64,4	87,8	40,0 (30,0)	47,00	70,50	94,00	30,0 (22,0)	CFW700C58P5T4DB20	
70,5	77,6	106,0	50,0 (37,0)	61,00	91,50	122,00	40,0 (30,0)	CFW700D70P5T4DBN1	D
88,0	96,8	132,0	60,0 (45,0)	73,00	110,00	146,00	50,0 (37,0)	CFW700D88P0T4DBN1	
105,0	115,5	157,0	75,0 (55,0)	88,00	132,00	176,00	60,0 (45,0)	CFW700E0105T4NB20C3	E
142,0	156,2	213,0	100,0 (75,0)	115,00	172,50	230,00	75,0 (55,0)	CFW700E0142T4NB20C3	
180,0	198,0	270,0	150,0 (110,0)	142,00	213,00	284,00	100,0 (75,0)	CFW700E0180T4NB20C3	
211,0	232,1	317,0	175,0 (132,0)	180,00	270,00	360,00	150,0 (110,0)	CFW700E0211T4NB20C3	

Nota:
(*) Os valores de potência para o máximo motor aplicável mostrado na tabela acima são orientativos e válidos para motores de indução trifásicos WEG de 4 pólos e tensão de alimentação de 220 V CA, 380 V CA ou 440 V CA.
O dimensionamento correto do inversor de frequência CFW700 a ser utilizado deve ser feito em função da corrente nominal do motor utilizado.

CFW11

- Tensão de alimentação
  - 200 a 240 V CA monofásica:
    Corrente de saída de 6,0 a 10,0 A (1,5 a 3,0 cv)
  - 200 a 230/240 V CA trifásica:
    Corrente nominal de saída de 7,0 a 211,0 A (1,5 a 75,0 cv)
  - 380 a 480 V CA trifásica:
    Corrente nominal de saída de 3,6 a 720,0 A (2,0 a 600,0 cv)
  - 500 a 600 V CA trifásica*:
    Corrente nominal de saída de 44,0 a 150,0 A (40,0 a 150,0 cv)
  - 690 V CA trifásica:
    Corrente nominal de saída de 39,0 a 130,0 A (40,0 a 150,0 cv)

Características

Tecnologia

- *Vectrue Technology®*
- Frenagem Ótima - *Optimal Braking®*
- Fluxo Ótimo®
- WMagnet *Drive System®*
- *Softwares* gratuitos Superdrive G2 e WLP
- Função SoftPLC
- Relógio de tempo real
- Porta USB
- Interface de operação com *display* gráfico e *backlight*
- Sistema inteligente de refrigeração
- Alta precisão

Flexibilidade

- Filosofia *plug and play*
- Indutor incorporado no *link* CC
- IGBT de frenagem
- Módulo de memória *flash*
- Barramento CC único
- Versão com grau de proteção IP54
- Tamanho reduzido
- Robustez de *hardware*

Opcionais e Acessórios

- Módulo de parada de segurança
- Expansão de entradas e saídas (I/Os)
- Módulos de comunicação em rede
- Interface de operação remota
- Filtro RFI
- Alimentação interna do controle

Versões Montados em Painel Elétrico

- Autoportante - APW11
- Acionamento completo - AFW11C/AFW11
- Modular - AFW11M/AFW11W

CFW11 - Especificação

Modelo Padrão

Regime de sobrecarga								Referência BR...	Tamanho
Normal = Normal *Duty* (ND)				Pesada = *Heavy Duty* (HD)					
Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)	Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)		
Nominal	1 min	3 seg		Nominal	1 min	3 seg			
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA monofásica									
6,0	6,6	9,0	1,5 (1,1)	5,0	7,5	10,0	1,5 (1,1)	CFW110006S2OFAZ	A
7,0	7,7	10,5	2,0 (1,5)	7,0	10,5	14,0	2,0 (1,5)	CFW110007S2OFAZ	
10,0	11,0	15,0	3,0 (2,2)	10,0	15,0	20,0	3,0 (2,2)	CFW110010S2SZ	
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA monofásica ou trifásica									
6,0	6,6	9,0	1,5 (1,1)	5,0	7,5	10,0	1,5 (1,1)	CFW110006B2SZ	A
7,0	7,7	10,5	2,0 (1,50	7,0	10,5	14,0	2,0 (1,5)	CFW110007B2SZ	
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA trifásica **									
7,0	7,7	10,5	2,0 (1,5)	5,5	8,3	11,0	1,5 (1,1)	CFW110007T2SZ	A
10,0	11,0	15,0	3,0 (2,20)	8,0	12,0	16,0	2,0 (1,5)	CFW110010T2SZ	
13,0	14,3	19,5	4,0 (3,0)	11,0	16,5	22,0	3,0 (2,2)	CFW110013T2SZ	
16,0	17,6	24,0	5,0 (3,7)	13,0	19,5	26,0	4,0 (3,0)	CFW110016T2SZ	
24,0	26,4	36,0	7,5 (5,5)	20,0	30,0	40,0	6,0 (4,5)	CFW110024T2SZ	B
28,0	30,8	42,0	10 (7,5)	24,0	36,0	48,0	7,5 (5,5)	CFW110028T2SZ	
33,5	36,9	50,3	12,5 (9,2)	28,0	42,0	56,0	10,0 (7,5)	CFW110033T2SZ	
45,0	49,5	67,5	15,0 (11,0)	36,0	54,0	72,0	12,5 (9,2)	CFW110045T2SZ	C
54,0	59,4	81,0	20,0 (15,0)	45,0	67,5	90,0	15,0 (11,0)	CFW110054T2SZ	
70,0	77,0	105,0	25,0 (18,5)	56,0	84,0	112,0	20,0 (15,0)	CFW110070T2SZ	
86,0	94,6	129,0	30,0 (22,0)	70,0	105,0	140,0	25,0 (18,5)	CFW110086T2SZ	D
105,0	116,0	158,0	40,0 (30,0)	86,0	129,0	172,0	30,0 (22,0)	CFW110105T2SZ	
142,0	156,2	213,0	50,0 (37,0)	115,0	172,5	230,0	40,0 (30,0)	CFW110142T2SZ	E
180,0	198,0	270,0	60,0 (45,0)	142,0	213,0	284,0	50,0 (37,0)	CFW110180T2SZ	
211,0	232,0	317,0	75,0 (55,0)	180,0	270,0	360,0	75,0 (55,0)	CFW110211T2SZ	
Tensão de saída 380 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,6	5,4	7,2	2,0 (1,5)	CFW110003T4SZ	A
5,0	5,5	7,5	3,0 (2,2)	5,0	7,5	10,0	3,0 (2,2)	CFW110005T4SZ	
7,0	7,7	10,5	4,0 (3,0)	5,5	8,25	11,0	3,0 (2,2)	CFW110007T4SZ	
10,0	11,0	15,0	6,0 (4,5)	10,0	15,0	20,0	6,0 (4,5)	CFW110010T4SZ	
13,5	14,9	20,3	7,5 (5,5)	11,0	16,5	22,0	6,0 (4,5)	CFW110013T4SZ	
17,0	18,7	25,5	10,0 (7,5)	13,5	20,3	27,0	7,5 (5,5)	CFW110017T4SZ	B
24,0	26,4	36,0	15,0 (11,0)	19,0	28,5	38,0	10,0 (7,5)	CFW110024T4SZ	
31,0	34,1	46,5	20,0 (15,0)	25,0	37,5	50,0	15,0 (11,0)	CFW110031T4SZ	
38,0	41,8	57,0	25,0 (18,5)	33,0	49,5	66,0	20,0 (15,0)	CFW110038T4SZ	C
45,0	49,5	67,5	30,0 (22,0)	38,0	57,0	76,0	25,0 (18,5)	CFW110045T4SZ	
58,5	64,4	87,8	40,0 (30,0)	47,0	70,5	94,0	30,0 (22,0)	CFW110058T4SZ	
70,5	77,6	106,0	50,0 (37,0)	61,0	91,5	122,0	40,0 (30,0)	CFW110070T4SZ	D
88,0	96,8	132,0	60,0 (45,0)	73,0	110,0	146,0	50,0 (37,0)	CFW110088T4SZ	
105,0	115,5	157,0	75,0 (55,0)	88,0	132,0	176,0	60,0 (45,0)	CFW110105T4SZ	E
142,0	156,2	213,0	100,0 (75,0)	115,0	172,5	230,0	75,0 (55,0)	CFW110142T4SZ	
180,0	198,0	270,0	125,0 (90,0)	142,0	213,0	284,0	100,0 (75,0)	CFW110180T4SZ	
211,0	232,1	317,0	150,0 (110,0)	180,0	270,0	360,0	125,0 (90,0)	CFW110211T4SZ	
242,0	266,0	363,0	150,0 (110,0)	211,0	317,0	422,0	125,0 (90,0)	CFW110242T4SZ	F
312,0	343,0	468,0	200,0 (150,0)	242,0	363,0	484,0	150,0 (110,0)	CFW110312T4SZ	
370,0	407,0	555,0	250,0 (185,0)	312,0	468,0	624,0	200,0 (150,0)	CFW110370T4SZ	
477,0	525,0	716,0	350,0 (260,0)	370,0	555,0	740,0	250,0 (185,0)	CFW110477T4SZ	
515,0	567,0	773,0	400,0 (300,0)	477,0	716,0	954,0	350,0 (260,0)	CFW110515T4SZ	G
601,0	662,0	900,0	450,0 (330,0)	515,0	773,0	1030,0	400,0 (300,0)	CFW110601T4SZ	
720,0	792,0	1080,0	550,0 (410,0)	560,0	840,0	1120,0	400,0 (300,0)	CFW110720T4SZ	

Notas:
** Valores de potência orientativos, válidos para motores de indução trifásicos WEG de 4 pólos e tensão de alimentação 220, 380, 440, 575, 690 V CA. O dimensionamento correto deve ser feito em função da corrente nominal do motor utilizado.*
*** Os modelos 142T2, 180T2 e 211T2 possuem tensão de alimentação de 220-230 V CA.*

CFW11 - Especificação

Modelo Padrão

Regime de sobrecarga								Referência BR...	Tamanho
Normal = Normal *Duty* (ND)				Pesada = *Heavy Duty* (HD)					
Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)	Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)		
Nominal	1 min	3 seg		Nominal	1 min	3 seg			
Tensão de saída 440 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,6	5,4	7,2	2,0 (1,5)	CFW110003T4SZ	A
5,0	5,5	7,5	3,0 (2,2)	5,0	7,5	10,0	3,0 (2,2)	CFW110005T4SZ	
7,0	7,7	10,5	4,0 (3,0)	5,5	8,25	11,0	3,0 (2,2)	CFW110007T4SZ	
10,0	11,0	15,0	6,0 (4,5)	10,0	15,0	20,0	6,0 (4,5)	CFW110010T4SZ	
13,5	14,9	20,3	7,5 (5,5)	11,0	16,5	22,0	6,0 (4,5)	CFW110013T4SZ	
17,0	18,7	25,5	10,0 (7,5)	13,5	20,3	27,0	7,5 (5,5)	CFW110017T4SZ	B
24,0	26,4	36,0	15,0 (11,0)	19,0	28,5	38,0	10,0 (7,5)	CFW110024T4SZ	
31,0	34,1	46,5	20,0 (15,0)	25,0	37,5	50,0	15,0 (11,0)	CFW110031T4SZ	
38,0	41,8	57,0	25,0 (18,5)	33,0	49,5	66,0	20,0 (15,0)	CFW110038T4SZ	C
45,0	49,5	67,5	30,0 (22,0)	38,0	57,0	76,0	25,0 (18,5)	CFW110045T4SZ	
58,5	64,4	87,8	40,0 (30,0)	47,0	70,5	94,0	30,0 (22,0)	CFW110058T4SZ	
70,5	77,6	106,0	50,0 (37,0)	61,0	91,5	122,0	40,0 (30,0)	CFW110070T4SZ	D
88,0	96,8	132,0	60,0 (45,0)	73,0	110,0	146,0	50,0 (37,0)	CFW110088T4SZ	
105,0	115,5	157,0	75,0 (55,0)	88,0	132,0	176,0	60,0 (45,0)	CFW110105T4SZ	E
142,0	156,2	213,0	100,0 (75,0)	115,0	172,5	230,0	75,0 (55,0)	CFW110142T4SZ	
180,0	198,0	270,0	150,0 (110,0)	142,0	213,0	284,0	100,0 (75,0)	CFW110180T4SZ	
211,0	232,1	317,0	175,0 (132,0)	180,0	270,0	360,0	150,0 (110,0)	CFW110211T4SZ	
242,0	266,0	363,0	200,0 (150,0)	211,0	317,0	422,0	175,0 (132,0)	CFW110242T4SZ	F
312,0	343,0	468,0	250,0 (185,0)	242,0	363,0	484,0	200,0 (150,0)	CFW110312T4SZ	
370,0	407,0	555,0	300,0 (220,0)	312,0	468,0	624,0	250,0 (185,0)	CFW110370T4SZ	
477,0	525,0	716,0	400,0 (300,0)	370,0	555,0	740,0	300,0 (220,0)	CFW110477T4SZ	
515,0	567,0	773,0	400,0 (300,0)	477,0	716,0	954,0	400,0 (300,0)	CFW110515T4SZ	G
601,0	662,0	900,0	500,0 (370,0)	515,0	773,0	1030,0	400,0 (300,0)	CFW110601T4SZ	
720,0	792,0	1080,0	600,0 (450,0)	560,0	840,0	1120,0	450,0 (330,0)	CFW110720T4SZ	
Tensão de saída 575 V CA trifáscia - Tensão de alimentação do inversor 500-600 V CA trifásica **									
53,0	58,3	79,5	50,0 (37,0)	44,0	66,0	88,0	40,0 (30,0)	CFW110053T6SZ	E
63,0	69,3	94,5	60,0 (45,0)	53,0	79,5	106,0	50,0 (37,0)	CFW110063T6SZ	
79,0	86,9	118,5	75,0 (55,0)	66,0	99,0	132,0	60,0 (55,0)	CFW110079T6SZ	
107,0	117,7	160,5	100,0 (90,0)	90,0	135,0	180,0	75,0 (55,0)	CFW110107T6SZ	
125,0	137,5	187,5	125,0 (90,0)	107,0	160,5	214,0	100,0 (90,0)	CFW110125T6SZ	
150,0	165,0	225,0	150,0 (110,0)	122,0	183,0	244,0	125,0 (90,0)	CFW110150T6SZ	
Tensão de saída 690 V CA trifásica - Tensão de alimentação do inversor 690 V CA trifásica **									
46,0	50,6	69,0	50,0 (37,0)	39,0	58,5	78,0	40,0 (30,0)	CFW110053T6SZ	E
54,0	59,4	81,0	60,0 (45,0)	46,0	69,0	92,0	50,0 (37,0)	CFW110063T6SZ	
73,0	80,3	109,5	75,0 (55,0)	61,0	91,5	122,0	60,0 (55,0)	CFW110079T6SZ	
100,0	110,0	150,0	100,0 (90,0)	85,0	127,5	170,0	75,0 (55,0)	CFW110107T6SZ	
108,0	118,8	162,0	125,0 (90,0)	95,0	142,0	190,0	100,0 (90,0)	CFW110125T6SZ	
130,0	143,0	195,0	150,0 (110,0)	108,0	162,0	216,0	125,0 (90,0)	CFW110150T6SZ	

Notas:
** Valores de potência orientativos, válidos para motores de indução trifásicos WEG de 4 pólos e tensão de alimentação 220, 380, 440, 575, 690 V CA. O dimensionamento correto deve ser feito em função da corrente nominal do motor utilizado.*
*** Em desenvolvimento, consulte o departamento de vendas.*
ND=Norma duty (sobrecarga normal = 110% da corrente nominal durante um minuto a cada 10 minutos ou 150% da corrente nominal durante 3 segundos).
HD=Heavy duty (sobrecarga pesada = 150% da corrente nominal durante um minuto a cada 10 minutos ou 200% da corrente nominal durante 3 segundos).

CFW11 - Especificação

Modelo com IP54

Regime de sobrecarga								Referência BR...	Tamanho
Normal = Normal *Duty* (ND)				Pesada = *Heavy Duty* (HD)					
Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)	Corrente nominal de saída (A)			Máximo motor aplicável (*) cv (kW)		
Nominal	1 min	3 seg		Nominal	1 min	3 seg			
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA monofásica									
6,0	6,6	9,0	1,5 (1,1)	5,0	7,5	10,0	1,5 (1,1)	CFW110006S2054FAZ	1
7,0	7,7	10,5	2,0 (1,5)	7,0	10,5	14,0	2,0 (1,5)	CFW110007S2054FAZ	
10,0	11,0	15,0	3,0 (2,2)	10,0	15,0	20,0	3,0 (2,2)	CFW110010S2054Z	
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA monofásica ou trifásica									
6,0	6,6	9,0	1,5 (1,1)	5,0	7,5	10,0	1,5 (1,1)	CFW110006B2054Z	1
7,0	7,7	10,5	2,0 (1,50	7,0	10,5	14,0	2,0 (1,5)	CFW110007B2054Z	
Tensão de saída 220 V CA trifásica - Tensão de alimentação do inversor 200-240 V CA trifásica									
7,0	7,7	10,5	2,0 (1,5)	5,5	8,3	11,0	1,5 (1,1)	CFW110007T2054Z	1
10,0	11,0	15,0	3,0 (2,20)	8,0	12,0	16,0	2,0 (1,5)	CFW110010T2054Z	
13,0	14,3	19,5	4,0 (3,0)	11,0	16,5	22,0	3,0 (2,2)	CFW110013T2054Z	
16,0	17,6	24,0	5,0 (3,7)	13,0	19,5	26,0	4,0 (3,0)	CFW110016T2054Z	
24,0	26,4	36,0	7,5 (5,5)	20,0	30,0	40,0	6,0 (4,5)	CFW110024T2054Z	1
28,0	30,8	42,0	10 (7,5)	24,0	36,0	48,0	7,5 (5,5)	CFW110028T2054Z	
33,5	36,9	50,3	12,5 (9,2)	28,0	42,0	56,0	10 (7,5)	CFW110033T2054Z	
45,0	49,5	67,5	15,0 (11,0)	36,0	54,0	72,0	12,5 (9,2)	CFW110045T2054Z	2
54,0	59,4	81,0	20,0 (15,0)	45,0	67,5	90,0	15,0 (11,0)	CFW110054T2054Z	
70,0	77,0	105,0	25,0 (18,5)	56,0	84,0	112,0	20,0 (15,0)	CFW110070T2054Z	
86,0	94,6	129,0	30,0 (22,0)	70,0	105,0	140,0	25,0 (18,5)	CFW110086T2054Z	2
105,0	116,0	158,0	40,0 (30,0)	86,0	129,0	172,0	30,0 (22,0)	CFW110105T2054Z	
142,0	156,2	213,0	50,0 (37,0)	115,0	172,5	230,0	40,0 (30,0)	CFW110142T2054Z	3
Tensão de saída 380 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,6	5,4	7,2	2,0 (1,5)	CFW110003T4054Z	1
5,0	5,5	7,5	3,0 (2,2)	5,0	7,5	10,0	3,0 (2,2)	CFW110005T4054Z	
7,0	7,7	10,5	4,0 (3,0)	5,5	8,25	11,0	3,0 (2,2)	CFW110007T4054Z	
10,0	11,0	15,0	6,0 (4,5)	10,0	15,0	20,0	6,0 (4,5)	CFW110010T4054Z	
13,5	14,9	20,3	7,5 (5,5)	11,0	16,5	22,0	6,0 (4,5)	CFW110013T4054Z	
17,0	18,7	25,5	10,0 (7,5)	13,5	20,3	27,0	7,5 (5,5)	CFW110017T4054Z	1
24,0	26,4	36,0	15,0 (11,0)	19,0	28,5	38,0	10,0 (7,5)	CFW110024T4054Z	
31,0	34,1	46,5	20,0 (15,0)	25,0	37,5	50,0	15,0 (11,0)	CFW110031T4054Z	
38,0	41,8	57,0	25,0 (18,5)	33,0	49,5	66,0	20,0 (15,0)	CFW110038T4054Z	2
45,0	49,5	67,5	30,0 (22,0)	38,0	57,0	76,0	25,0 (18,5)	CFW110045T4054Z	
58,5	64,4	87,8	40,0 (30,0)	47,0	70,5	94,0	30,0 (22,0)	CFW110058T4054Z	
70,5	77,6	106,0	50,0 (37,0)	61,0	91,5	122,0	40,0 (30,0)	CFW110070T4054Z	2
88,0	96,8	132,0	60,0 (45,0)	73,0	110,0	146,0	50,0 (37,0)	CFW110088T4054Z	
105,0	115,5	157,0	75,0 (55,0)	88,0	132,0	176,0	60,0 (45,0)	CFW110105T4054Z	3
142,0	156,2	213,0	100,0 (75,0)	115,0	172,5	230,0	75,0 (55,0)	CFW110142T4054Z	
Tensão de saída 440 V CA trifásica - Tensão de alimentação do inversor 380-480 V CA trifásica									
3,6	4,0	5,4	2,0 (1,5)	3,6	5,4	7,2	2,0 (1,5)	CFW110003T4054Z	1
5,0	5,5	7,5	3,0 (2,2)	5,0	7,5	10,0	3,0 (2,2)	CFW110005T4054Z	
7,0	7,7	10,5	4,0 (3,0)	5,5	8,25	11,0	3,0 (2,2)	CFW110007T4054Z	
10,0	11,0	15,0	6,0 (4,5)	10,0	15,0	20,0	6,0 (4,5)	CFW110010T4054Z	
13,5	14,9	20,3	7,5 (5,5)	11,0	16,5	22,0	6,0 (4,5)	CFW110013T4054Z	
17,0	18,7	25,5	10,0 (7,5)	13,5	20,3	27,0	7,5 (5,5)	CFW110017T4054Z	1
24,0	26,4	36,0	15,0 (11,0)	19,0	28,5	38,0	10,0 (7,5)	CFW110024T4054Z	
31,0	34,1	46,5	20,0 (15,0)	25,0	37,5	50,0	15,0 (11,0)	CFW110031T4054Z	
38,0	41,8	57,0	25,0 (18,5)	33,0	49,5	66,0	20,0 (15,0)	CFW110038T4054Z	2
45,0	49,5	67,5	30,0 (22,0)	38,0	57,0	76,0	25,0 (18,5)	CFW110045T4054Z	
58,5	64,4	87,8	40,0 (30,0)	47,0	70,5	94,0	30,0 (22,0)	CFW110058T4054Z	
70,5	77,6	106,0	50,0 (37,0)	61,0	91,5	122,0	40,0 (30,0)	CFW110070T4054Z	2
88,0	96,8	132,0	60,0 (45,0)	73,0	110,0	146,0	50,0 (37,0)	CFW110088T4054Z	
105,0	115,5	157,0	75,0 (55,0)	88,0	132,0	176,0	60,0 (45,0)	CFW110105T4054Z	3
142,0	156,2	213,0	100,0 (75,0)	115,0	172,5	230,0	75,0 (55,0)	CFW110142T4054Z	

Notas:
** Valores de potência orientativos, válidos para motores de indução trifásicos WEG de 4 pólos e tensão de alimentação 220, 380, 440 V CA.*
O dimensionamento correto deve ser feito em função da corrente nominal do motor utilizado.
ND=Norma duty (sobrecarga normal = 110% da corrente nominal durante um minuto a cada 10 minutos ou 150% da corrente nominal durante 3 segundos).
HD=Heavy duty (sobrecarga pesada = 150% da corrente nominal durante um minuto a cada 10 minutos ou 200% da corrente nominal durante 3 segundos).

CFW09

Completo, Flexível e Compacto

Grau de proteção NEMA 1 / IP20

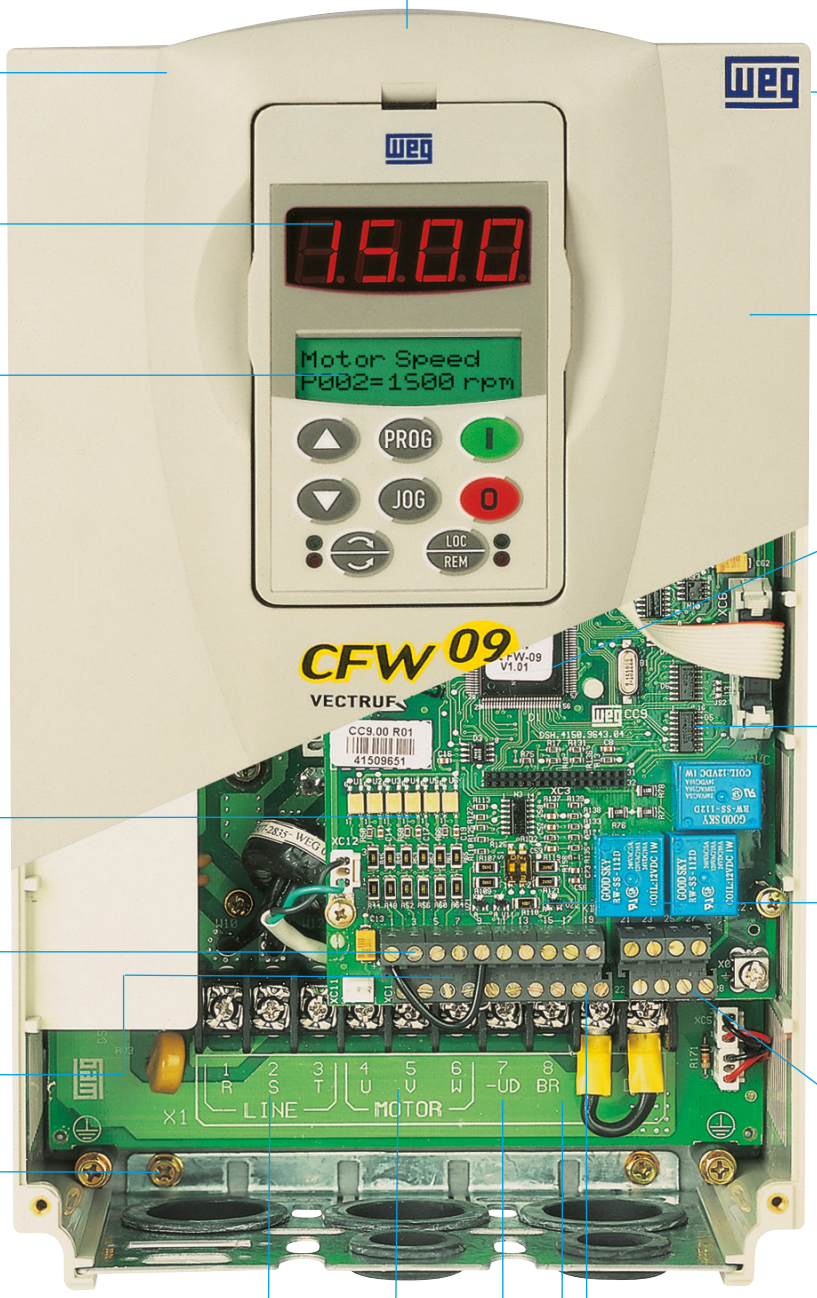
Módulo de interface serial RS232 opcional para interligação a um microcomputador PC

Flange para montagem do dissipador, opcionalmente, atrás da placa de montagem

Display de LEDs 7 segmentos

Interface Homem-Máquina destacável, com duplo display (LCD + LEDs), multi-idiomas e função COPY

Display de cristal líquido (LCD) 2 linhas de 16 caracteres



Microcontrolador de alta performance, do tipo RISC de 32 bits

Módulos de redes de comunicação FieldBus para:
- *ProfiBus-DP (opcional)*
- *DeviceNet (opcional)*
- *DeviceNet Drive Profile (opcional)*
- *Modbus-RTU (incorporado)*

Cartão de controle em SMD padrão para toda a gama de potências

Módulos opcionais de expansão de funções para:
- *Interface serial RS485*
- *Entrada e saídas adicionais*
- *Realimentação de Encoder*

6 entradas digitais isoladas programáveis

2 entradas analógicas programáveis

Sistema de passagem de cabos e conexão de eletroduto metálico

3 saídas a relé programáveis

Entrada de alimentação de rede

Saída para alimentação do motor

2 saídas analógicas programáveis

Conexão do link CC para:
- *Indutor de entrada*
- *Retificador em barramento CC único*
- *Unidade retificadora regenerativa*

Conexão para resistor de frenagem

CFW09

Características

- Potência: 1,5 a 1500,0 cv
- Tensão: 220 a 690 V CA
- Controle vetorial *sensorless* ou com *encoder*
- Controle V/F (escalar)
- Controle vetorial de tensão WEG (VVW)
- Frenagem ótima - *Optimal Braking®*
- Microcontrolador RISC 32 bits
- Inversor regenerativo
- Filtros EMC
- Comunicação FieldBus: Profibus-DP, DeviceNet, DeviceNet *Drive Profile*, Metasys N2 Johnson *Controls* (opcionais) e Modbus-RTU (incorporado)
- Grau de proteção: IP20 até 500,0 cv (padrão)
- Cartão com funções de CLP e controle de posição
- Fluxo ótimo®: solução para cargas de torque constante, dispensando a utilização do motor com ventilação independente ou sobredimensionamento do motor *(Patente requerida)*

CFW09 - Especificação

Tensão de alimentação (V CA)	Modelo *standard*	IGBT de frenagem	Corrente nominal		Motor máximo aplicável(1)					Tamanho
					Tensão de alimentação (V CA)	Torque constante		Torque variável		
			CT*	VT*		cv	kW	cv	kW	
220/230	CFW090006T2223PS	Padrão incorporado	6,0		220	1,5	1,1	1,5	1,1	1
	CFW090007T2223PS		7,0			2,0	1,5	2,0	1,5	
	CFW090010T2223PS		10,0			3,0	2,2	3,0	2,2	
	CFW090013T2223PS		13,0			4,0	3,0	4,0	3,0	
	CFW090016T2223PS		16,0			6,0	4,4	6,0	4,4	2
	CFW090024T2223PS		24,0			7,5	5,5	7,5	5,5	
	CFW090028T2223PS		28,0			10,0	7,5	10,0	7,5	
	CFW090033T2223PS		33,0			12,5	9,0	12,5	9,0	
	CFW090038T2223PS		38,0			12,5	9,0	12,5	9,0	3
	CFW090045T2223PS		45,0			15,0	11,0	15,0	11,0	
	CFW090054T2223PS	Opcional interno	54,0	68,0		20,0	15,0	25,0	18,5	4
	CFW090070T2223PS		70,0	86,0		25,0	18,5	30,0	22,0	5
	CFW090086T2223PS		86,0	105,0		30,0	22,0	40,0	30,0	
	CFW090105T2223PS		105,0	130,0		40,0	30,0	50,0	37,0	6
	CFW090130T2223PS		130,0	150,0		50,0	37,0	60,0	45,0	
	CFW090142T2223PS		142,0	174,0		60,0	45,0	75,0	55,0	7
	CFW090180T2223PS	Opcional com unidade externa	180,0			75,0	55,0	75,0	55,0	8
	CFW090240T2223PS		240,0			100,0	75,0	100,0	75,0	
	CFW090361T2223PS		361,0			150,0	110,0	150,0	110,0	9
380/400/415/440/460/480	CFW090003T3848PS	Padrão incorporado	3,6		380	1,5	1,1	1,5	1,1	1
	CFW090004T3848PS		4,0			2,0	1,5	2,0	1,5	
	CFW090005T3848PS		5,5			3,0	2,2	3,0	2,2	
	CFW090009T3848PS		9,0			5,0	3,7	5,0	3,7	
	CFW090013T3848PS		13,0			7,5	5,5	7,5	5,5	2
	CFW090016T3848PS		16,0			10,0	7,5	10,0	7,5	
	CFW090024T3848PS		24,0			15,0	11,0	15,0	11,0	
	CFW090030T3848PS		30,0	36,0		25,0	18,5	25,0	18,5	3
	CFW090038T3848PS	Opcional interno	38,0	45,0		25,0	18,5	30,0	22,0	4
	CFW090045T3848PS		45,0	54,0		30,0	22,0	30,0	22,0	
	CFW090060T3848PS		60,0	70,0		40,0	30,0	50,0	37,0	5
	CFW090070T3848PS		70,0	86,0		50,0	37,0	60,0	45,0	
	CFW090086T3848PS		86,0	105,0		60,0	45,0	75,0	55,0	6
	CFW090105T3848PS		105,0	130,0		75,0	55,0	75,0	55,0	
	CFW090142T3848PS		142,0	174,0		100,0	75,0	125,0	92,0	7

Notas:

**CT = Torque constante (T carga = constante); VT = Torque variável (Ex.: Torque quadrático => T carga ~ n2).*

1 - As potências máximas dos motores, na tabela acima, foram calculadas com base nos modelos WEG de 2 e 4 pólos. Para motores de outras polaridades (Ex.: 6 e 8 pólos), outras tensões (Ex.: 230, 400, e 460 V CA) e/ou motores de outros fabricantes, especificar o inversor através da corrente nominal do motor.

2 - Os modelos de inversores CFW09 de 6, 7 e 10 A, na tensão 220-230 V CA, podem opcionalmente ser alimentados por rede monofásica, sem redução de corrente (potência) nominal de saída.

3 - Os modelos com correntes iguais ou superiores a 44A / 500-600 V CA e todos os modelos 500-690 V CA e 660-690 V CA não requerem impedância de linha mínima, porque possuem indutor no link CC interno no produto padrão.

4 - Os valores apresentados entre parênteses referem-se à corrente nominal de saída para alimentação em 660 e 690 V CA.

CFW09 - Especificação

Tensão de alimentação (V CA)	Modelo *standard*	IGBT de frenagem	Corrente nominal (A)		Motor máximo aplicável[1]					Tamanho
					Tensão de alimentação (V CA)	Torque constante		Torque variável		
			CT*	VT*		cv	kW	cv	kW	
380/400/415/440/460/480	CFW090180T3848PS	Opcional com unidade externa	180,0		380	125,0	90,0	125,0	90,0	8
	CFW090211T3848PS		211,0			150,0	110,0	150,0	110,0	
	CFW090240T3848PS		240,0			150,0	110,0	150,0	110,0	
	CFW090312T3848PS		312,0			200,0	150,0	200,0	150,0	9
	CFW090361T3848PS		361,0			250,0	185,0	250,0	185,0	10
	CFW090450T3848PS		450,0			300,0	220,0	300,0	220,0	
	CFW090515T3848PS		515,0			350,0	260,0	350,0	260,0	
	CFW090600T3848PS		600,0			450,0	330,0	450,0	330,0	
	CFW090686T3848PS		686,0			500,0	370,0	500,0	370,0	
	CFW090855T3848PS		855,0			600,0	450,0	600,0	450,0	
	CFW091140T3848PS		1140,0			800,0	600,0	800,0	600,0	
	CFW091283T3848PS		1283,0			900,0	660,0	900,0	660,0	
	CFW091710T3848PS		1710,0			1300,0	950,0	1300,0	950,0	
	CFW090003T3848PS	Padrão incorporado	3,6		440	1,5	1,1	1,5	1,1	1
	CFW090004T3848PS		4,0			2,0	1,5	2,0	1,5	
	CFW090005T3848PS		5,5			3,0	2,2	3,0	2,2	
	CFW090009T3848PS		9,0			6,0	4,4	6,0	4,4	
	CFW090013T3848PS		13,0			10,0	7,5	10,0	7,5	2
	CFW090016T3848PS		16,0			12,5	9,2	12,5	9,2	
	CFW090024T3848PS		24,0			15,0	11,0	15,0	11,0	
	CFW090030T3848PS		30,0	36,0		20,0	15,0	25,0	18,5	3
	CFW090038T3848PS	Opcional interno	38,0	45,0		25,0	18,5	30,0	22,0	4
	CFW090045T3848PS		45,0	54,0		30,0	22,0	40,0	30,0	
	CFW090060T3848PS		60,0	70,0		40,0	30,0	50,0	37,0	5
	CFW090070T3848PS		70,0	86,0		50,0	37,0	60,0	45,0	
	CFW090086T3848PS		86,0	105,0		60,0	45,0	75,0	55,0	6
	CFW090105T3848PS		105,0	130,0		75,0	55,0	100,0	75,0	
	CFW090142T3848PS		142,0	174,0		100,0	75,0	125,0	92,0	7
	CFW090180T3848PS	Opcional com unidade externa	180,0			150,0	110,0	150,0	110,0	8
	CFW090211T3848PS		211,0			175,0	131,0	175,0	131,0	
	CFW090240T3848PS		240,0			200,0	150,0	200,0	150,0	
	CFW090312T3848PS		312,0			250,0	187,0	250,0	187,0	9
	CFW090361T3848PS		361,0			300,0	220,0	300,0	220,0	
	CFW090450T3848PS		450,0			350,0	260,0	350,0	260,0	10
	CFW090515T3848PS		515,0			450,0	336,0	450,0	336,0	
	CFW090600T3848PS		600,0			500,0	370,0	500,0	370,0	
	CFW090686T3848PS		686,0			600,0	450,0	600,0	450,0	
	CFW090855T3848PS		855,0			700,0	500,0	700,0	500,0	
	CFW091140T3848PS		1140,0			900,0	660,0	900,0	660,0	
	CFW091283T3848PS		1283,0			1000,0	730,0	1000,0	730,0	
	CFW091710T3848PS		1710,0			1500,0	1100,0	1500,0	1100,0	
500/525/575/600	CFW090002T5060PS	Padrão incorporado	2,9	4,2	575	2,0	1,5	3,0	2,2	2
	CFW090004T5060PS		4,2	7,0		3,0	2,2	5,0	3,7	
	CFW090007T5060PS		7,0	10,0		5,0	3,7	7,5	5,5	
	CFW090010T5060PS		10,0	12,0		7,5	5,5	10,0	7,5	
	CFW090012T5060PS		12,0	14,0		10,0	7,5	12,5	9,2	
	CFW090014T5060PS		14,0	14,0		15,0	11,0	15,0	11,0	
	CFW090022T5060PS	Opcional interno	22,0	27,0		20,0	15,0	25,0	18,5	4
	CFW090027T5060PS		27,0	32,0		25,0	18,5	30,0	22,0	
	CFW090032T5060PS		32,0	32,0		30,0	22,0	30,0	22,0	
	CFW090044T5060PS		44,0	53,0		40,0	30,0	50,0	37,0	7
	CFW090053T5060PS		53,0	63,0		50,0	37,0	60,0	45,0	
	CFW090063T5060PS		63,0	79,0		60,0	45,0	75,0	55,0	
	CFW090079T5060PS		79,0	99,0		75,0	55,0	100,0	75,0	
500/525/575/600/660/690	CFW090107T5069PS	Opcional com unidade externa	107,0(100,0)	147,0(127,0)		100,0	75,0	150,0	110,0	8E
	CFW090147T5069PS		147,0 (127,0)	196,0(179,0)		150,0	110,0	200,0	150,0	
	CFW090211T5069PS		211,0(179,0)	211,0(179,0)		200,0	150,0	200,0	150,0	
	CFW090247T5069PS		247,0(225,0)	315,0(259,0)		250,0	185,0	300,0	220,0	10E
	CFW090315T5069PS		315,0(259,0)	343,0(305,0)		300,0	220,0	350,0	250,0	
	CFW090343T5069PS		343,0(305,0)	318,0(340,0)		350,0	250,0	400,0	300,0	
	CFW090418T5069PS		418,0(340,0)	472,0(428,0)		400,0	300,0	500,0	370,0	
	CFW090472T5069PS		472,0(428,0)	555,0(428,0)		500,0	370,0	600,0 (500,0)	450,0 (370,0)	
660/690	CFW090100T6669PS		100,0	127,0	690	100,0	75,0	150,0	110,0	8E
	CFW090127T6669PS		127,0	179,0		150,0	110,0	200,0	150,0	
	CFW090179T6669PS		179,0			200,0	150,0	200,0	150,0	
	CFW090225T6669PS		225,0	259,0		250,0	185,0	300,0	220,0	10E
	CFW090259T6669PS		259,0	305,0		300,0	220,0	350,0	250,0	
	CFW090305T6669PS		305,0	340,0		350,0	250,0	400,0	300,0	
	CFW090340T6669PS		340,0	428,0		400,0	300,0	500,0	370,0	
	CFW090428T6669PS		428,0			500,0	370,0	500,0	370,0	

Notas: veja na página 12.

Comparativo

Modelos		CFW10	CFW08	CFW700	CFW11	CFW09
Alimentação	Monofásica	110-127 V CA	200-240 V CA	-	-	-
		200-240 V CA		-	200-240 V CA	-
	Trifásica	200-240 V CA	200-240 V CA	200-240/220-230 V CA	-	220-230 V CA
			380-480 V CA	380-480 V CA	380-480 V CA	380-480 V CA
					500-600 V CA	500-600 V CA
					500-690 V CA	500-690 V CA
	Frequência	50/60 Hz ± 2%	50/60 Hz ± 2%	50/60 Hz ± 2%	50/60 Hz ± 2%	50/60 Hz ± 2%
	Fator de potência	-	-	0,70 (monofásica) 0,94 (trifásica)	0,70 (monofásica) 0,94 (trifásica)	-
	Variações de tensão	De -15% a +10% da tensão nominal (com perda na potência do motor)	De -15% a +10% da tensão nominal (com perda na potência do motor)	De -15% a +10%	De -15% a +10%	De -15% a +10%
	Sobretensões	Categoria III (EN 61010/UL 508C)	Categoria III (EN 61010/UL 508C)	Categoria III (EN 61010/UL 508C)	Categoria III (EN 61010/UL 508C)	Categoria III (EN 61010/UL 508C)
	Impedância mínima	Conforme o modelo	Conforme o modelo	Não necessária (reator no *link* CC)	Não necessária (reator no *link* CC)	Conforme o modelo
Corrente nominal de saída	110-127 V CA monofásica	1,6 a 4,0 A	-	-	-	-
	200-240 V CA monofásica	1,6 a 10,0 A	1,6 a 10,0 A	-	-	-
	220-240 V CA monofásica	-	-	6,0 a 10,0 A	6,0 a 7,0 A	-
	200-240 V CA trifásica	1,6 a 15,0 A	7,0 a 33,0 A	-	6 a 105,0 A	-
	220 ou 230 V CA trifásica	-	-	142 a 211 A	-	-
	220-230 V CA trifásica	-	-	-	142 a 211 A	6,0 a 361 A
	220-240 V CA trifásica	-	-	7,0 a 105,0 A	-	-
	380-480 V CA	-	1 a 30,0 A	3,6 a 211 A	3,6 a 720 A	3,6 a 1710 A
	500-600 V CA	-	-	-	53 a 150 A	2,9 a 99 A
	500-690 V CA	-	-	-	-	107 a 555 A
	660 ou 690 V CA	-	-	-	46 a 130 A	100 a 428 A
Controle	Tipos	V/Hz (Escalar)	V/Hz (escalar)	V/Hz (escalar)	V/Hz (escalar)	V/Hz (escalar)
			VVW (controle vetorial de tensão WEG)	VVW (controle vetorial de tensão WEG)	VVW (controle vetorial de tensão WEG)	VVW (controle vetorial de tensão WEG)
			Vetorial sem *encoder* (*sensorless*)	Vetorial em *encoder* (*sensorless*)	Vetorial em *encoder* (*sensorless*)	Vetorial em *encoder* (*sensorless*)
			-	Vetorial com *encoder*	Vetorial com *encoder*	Vetorial com *encoder*
			-	-	Vetorial Wmagnet (sem e com *encoder*)	-
	Alimentação	-	Fonte chaveada	Fonte chaveada	Fonte chaveada	Fonte chaveada
	Rendimento	> 95%	> 95%	97%	97%	98%
	Chaveamento	2,5 a 15 kHz	5 a 15 kHz	1,25 a 10 kHz	1,25 a 10 kHz	1,25 a 10 kHz
	Frequência de saída	0 a 300 Hz	0 a 300 Hz	0 Hz a 300 Hz no modo escalar e de 30 Hz a 120 Hz no modo vetorial	0 Hz a 300 Hz no modo escalar e de 30 Hz a 120 Hz no modo vetorial	0 a 204 Hz (60 Hz) e 0 a 170 Hz (50 Hz)
	Resolução	0,01 Hz	0,01 Hz (f<100 Hz) 0,1 Hz (f>100 Hz)	Consulte o manual do usuário	Consulte o manual do usuário	Consulte o manual do usuário
Sobrecarga		HD: 150 durante 1 min a cada 10 min	HD: 150 durante 1 min a cada 10 min	ND:110 durante um 1 min a cada 10 min ou HD	ND:110 durante um 1 min a cada 10 min ou HD	ND:120 durante um 1 min a cada 10 min ou HD
				HD: 150 durante 1 min a cada 10 min	HD: 150 durante 1 min a cada 10 min	HD: 150 durante 1 min a cada 10 min
IGBT de frenagem		Sim (tamanhos 2 e 3)	Sim (tamanhos 2, 3 e 4)	Sim (padrão nos tamanhos A, B, C e D e opcional interno no tamanho E)	Sim (padrão nos tamanhos A, B, C e D. Opcional interno no tamanho E e opcional externo nos tamanhos F e G)	Opcional nos tamanhos 4, 5, 6 e 7
Filtro RFI		Opcional (interno ou externo, conforme modelo)	Opcional (interno ou externo, conforme modelo)	Opcional interno nos tamanhos A, B, C e D	Opcional interno nos tamanhos A, B, C e D	Opcional externo, conforme o modelo
Entradas	Digitais	4 (isoladas)	4 (isoladas PNP ou NPN programáveis) (*)	8 x bidirecionais isoladas (24 V)	6 x bidirecionais isoladas (24 V)	6 x bidirecionais isoladas (24 V)
	Analógicas	1 (0 a 20 mA ou 4 a 20 mA)	1 (0 a 10 V CC / 4 a 20 mA) (*)	2 x -10 a +10 V 11 bits + sinal ou 0/4 a 20 mA 11bits	1 x -10 a +10 V 11 bits + sinal ou 0/4 a 20 mA 11bits 1 x 0 a 10 V ou 0/4 a 20 mA 12 bits	2 x entradas diferenciais não isoladas, resolução: 10 bits, (0 a 10) V, (0 a 20) mA ou (4 a 20) mA

Nota: para maiores detalhes de cada modelo, consulte o manual do usuário.

Comparativo

Comparativo		CFW10	CFW08	CFW700	CFW11	CFW09
Saídas	Digitais	1 relé com contato reversor, programável (250 V CA - 0,5 A/ 125 V CA - 1,0 A / 30 V CC - 2,0 A)	1 relé com contato reversor, programável (250 V CA - 0,5 A/ 125 V CA - 1,0 A / 30 V CC - 2,0 A) (*)	1 x relé com contato reversor (240 V CA/1 A) 4 x dreno-aberto (24 V/200 mA)	3 x relé com contato reversor (240 V CA/1 A)	2 x relés com contatos NA/ NF, 240 V CA, 1 A, funções programáveis
	Analógicas	-	Somente no modelo Plus	2 x 0 a 10 V ou 0/4 a 20 mA 11 bits (não isoladas)	2 x 0 a 10 V ou 0/4 a 20 mA 11 bits (isoladas)	2 saídas, não isoladas, (0 a 10 V)
Comunicação	USB	-	-	-	Sim	-
	Serial	-	RS232 ou RS485 (opcional)	RS485 (padrão)	RS232, RS485 (Modbus) Opcional	RS232 via *kit* serial
		-				KCS - CFW09
		-				RS485, isolada, via cartões EBA ou EBB
	FieldBus	-	Modbus-RTU (incorporado) Módulos de comunicação Profibus-DP, DeviceNet ou CANopen (opcional)	WEG (*slot* 1): CAN (CANopen); DeviceNet); ProfiBus-DP	Sim, opções disponíveis:	Modbus-RTU via interface serial Profibus
		-			WEG (*slot* 3): CAN (CANopen; DeviceNet); ProfiBus-DP;	DP, DeviceNet ou DeviceNet Profile via kits
		-			Anybus-CC (*slot* 4): DeviceNet; ProfiBus-DP; EtherNet/IP; RS232 (Modbus); RS485 (Modbus)	Adicionais KFB
Expansão de funções		-	-	Tensão de comando 24 V CC; Módulo de *encoder* (incorporado); Módulo de parada de segurança;	Placa PLC (*slots* 1, 2 ou 3); Módulo de *encoder*; Tensão de comando 24 V CC; Módulo de parada de segurança	Placa PLC; Módulo de *encoder*; Tensão de comando 24 V CC;
Softwares gratuitos		-	SuperDrive: parametrização, comando e monitoração	SuperDrive G2: parametrização, comando e monitoração; WLP: para programação da SoftPLC	SuperDrive G2: parametrização, comando e monitoração; WLP: para programação da SoftPLC	SuperDrive: parametrização, comando e monitoração; WLP: para programação da placa PLC
Interface de operação IHM		Incorporada	Incorporada	Incorporada	Incorporada	Incorporada
Recursos	Proteções	Sobretensão e subtensão	Sobretensão e subtensão	Sobretensão e subtensão	Sobretensão e subtensão	Subtensão ou falta de fase
		Sobretemperatura	Sobretemperatura	Sobretemperatura	Sobretemperatura	Sobretemperatura
		Sobrecorrente na saída	Sobrecorrente na saída	Sobrecorrente na saída	Sobrecorrente na saída	Sobrecarga na saída
		Sobrecarga no motor	Sobrecarga no motor	Sobrecarga no motor	Sobrecarga no motor	Sobrecarga no resistor de frenagem
		Curto-circuito na saída	Curto-circuito na saída	Indicação de alarmes	Indicação de alarmes	Curto-circuito fase-terra na saída
		Senha de habilitação para programação	Senha de habilitação para programação	Ajuste da classe térmica do motor	Ajuste da classe térmica do motor	Erro de programação
	Funções especiais	Indicação de grandeza específica (programável)	Indicação de grandeza específica (programável)	SoftPLC	SoftPLC	-
		Curva V/F linear e quadrática ajustáveis	Curva V/F linear e quadrática ajustáveis, autoajuste (modo vetorial)	Potenciômetro eletrônico	Potenciômetro eletrônico	Potenciômetro eletrônico
		Rampa tipo "S" para redução de choques mecânicos e dupla rampa	Rampa tipo "S" para redução de choques mecânicos e dupla rampa	-	Função *trace*	-
		Até 8 velocidades pré-programadas (*multispeed*)	Até 8 velocidades pré-programadas (*multispeed*)	*Multispeed*	*Multispeed*	*Multispeed*
		Frenagem CC	Frenagem CC	Indicação de alarmes	indicação de alarmes	-
		Regulador PID	Regulador PID	Regulador PID	Regulador PID	Regulador PID
		Aplicação multimotores	Aplicações multibombas	Parada de segurança (opcional)	Parada de segurança (opcional)	-
Grau de proteção		IP20 (para todos os tamanhos)	NEMA1 / IP20: Modelos de 22 A, 28 A e 33 A/220-240 V e 13 A, 16 A, 24 A e 30 A/ 380-480 V; outros modelos com kits KN1-CFW08-M1 e KN1-CFW08-M2; IP20: Todos os modelos sem os kits KN1-CFW08-M1 e KN1-CFW08-M2	IP20 (padrão para os tamanhos A, B, C e E)	IP20 (padrão para os tamanhos A, B, C, E, F e G)	IP20 (padrão para os tamanhos 9 e 10)
				IP21 (opcional para os tamanhos A, B, C e D)	IP21 (opcional para o tamanho D	-
				NEMA 1 (padrão no tamanho D e opcional para os tamanhos A, B, C e E)	NEMA 1 (padrão no tamanho D e opcional para os tamanhos A, B, C e E)	NEMA1 (para tamanhos de 1 a 8)
				-	IP54 (modelos com tamanhos 1, 2 e 3)	IP56/Nema 4X (para tamanhos 1 e 2)
Umidade relativa do ar		5% a 90% (sem condensação)	5% a 90% (sem condensação)	5% a 90% (sem condensação)	5% a 90% (sem condensação)	5% a 90% (sem condensação)
Temperatura		0° a 50° C (modelo de 15,0 A com e filtro EMC 0° a 40° C)	0 °C a 40 °C (40 °C a 50 °C com redução de 2 %/ °C na corrente nominal)	Até 50 °C, consulte o manual do usuário para maiores detalhes	Conforme o modelo selecionado, consulte o manual do usuário para maiores detalhes	0...40 °C (até 55 ° C com redução de 2 % / °C na corrente de saída)
Altitude		De 1000 m até 4000 m com redução de 10%/ 1000 m na corrente nominal	De 1000 m até 4000 m com redução de 10%/ 1000 m na corrente nominal	0...1000 m (até 4000 m) com redução da corrente de saída (1% para cada 100 m acima de 1000 m)	0...1000 m (até 4000 m) com redução da corrente de saída (1% para cada 100 m acima de 1000 m)	0 ...1000 m (até 4000 m com redução de 10 % / 100 m na corrente de saída)

Nota: para maiores detalhes de cada modelo, consulte o manual do usuário.

Grupo WEG - Unidade Automação
Jaraguá do Sul - SC - Brasil
Telefone: (47) 3276-4000
automacao@weg.net
www.weg.net
www.youtube.com/wegvideos
@weg_wr

Cód: 10525554 | Rev: 07 | Data (m/a): 09/2013