



# CFW-11 VECTRUE INVERTER

Software Version: 1.1X

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
P0000	Access to Parameters	0 to 9999	0		-	-
P0001	Speed Reference	0 to 18000 rpm	-		RO	09
P0002	Motor Speed	0 to 18000 rpm	-		RO	09
P0003	Motor Current	0.0 to 4500.0 A	-		RO	09
P0004	DC Link Voltage (U <sub>d</sub> )	0 to 2000 V	-		RO	09
P0005	Motor Frequency	0.0 to 300.0 Hz	-		RO	09
P0006	VFD Status	0 = Ready 1 = Run 2 = Undervoltage 3 = Fault 4 = Self-Tuning 5 = Configuration 6 = DC-Braking 7 = STO	-		RO	09
P0007	Motor Voltage	0 to 2000 V	-		RO	09
P0009	Motor Torque	-1000.0 to 1000.0 %	-		RO	09
P0010	Output Power	0.0 to 6553.5 kW	-		RO	09
P0012	DI8 to DI1 Status	0000h to 00FFh	-		RO	09, 40
P0013	DO5 to DO1 Status	0000h to 001Fh	-		RO	09, 41
P0014	AO1 Value	0.00 to 100.00 %	-		RO	09, 39
P0015	AO2 Value	0.00 to 100.00 %	-		RO	09, 39
P0016	AO3 Value	-100.00 to 100.00 %	-		RO	09, 39
P0017	AO4 Value	-100.00 to 100.00 %	-		RO	09, 39
P0018	AI1 Value	-100.00 to 100.00 %	-		RO	09, 38, 95
P0019	AI2 Value	-100.00 to 100.00 %	-		RO	09, 38, 95
P0020	AI3 Value	-100.00 to 100.00 %	-		RO	09, 38, 95
P0021	AI4 Value	-100.00 to 100.00 %	-		RO	09, 38, 95
P0023	Software Version	0.00 to 655.35	-		RO	09, 42
P0027	Accessories Config. 1	0000h to FFFFh	-		RO	09, 42
P0028	Accessories Config. 2	0000h to FFFFh	-		RO	09, 42
P0029	Power Hardware Config	0000h to FFFFh	-		RO	09, 42
P0030	IGBTs Temperature U	-20.0 to 150.0 °C	-		RO	09, 45
P0031	IGBTs Temperature V	-20.0 to 150.0 °C	-		RO	09, 45
P0032	IGBTs Temperature W	-20.0 to 150.0 °C	-		RO	09, 45
P0033	Rectifier Temperature	-20.0 to 150.0 °C	-		RO	09, 45
P0034	Internal Air Temp.	-20.0 to 150.0 °C	-		RO	09, 45
P0036	Fan Heatsink Speed	0 to 15000 rpm	-		RO	09
P0037	Motor Overload Status	0 to 100 %	-		RO	09
P0038	Encoder Speed	0 to 65535 rpm	-		RO	09
P0040	PID Process Variable	0.0 to 100.0 %	--		RO	09, 46
P0041	PID Setpoint Value	0.0 to 100.0 %	-		RO	09, 46
P0042	Time Powered	0 to 65535 h	-		RO	09
P0043	Time Enabled	0.0 to 6553.5 h	-		RO	09
P0044	kWh Output Energy	0 to 65535 kWh	-		RO	09
P0045	Fan Enabled Time	0 to 65535 h	-		RO	09
P0048	Present Alarm	0 to 999	-		RO	09
P0049	Present Fault	0 to 999	-		RO	09
P0050	Last Fault	0 to 999	-		RO	08
P0051	Last Fault Day/Month	00/00 to 31/12	-		RO	08
P0052	Last Fault Year	00 to 99	-		RO	08
P0053	Last Fault Time	00:00 to 23:59	-		RO	08
P0054	Second Fault	0 to 999	-		RO	08
P0055	Second Ft. Day/Month	00/00 to 31/12	-		RO	08
P0056	Second Fault Year	00 to 99	-		RO	08
P0057	Second Fault Time	00:00 to 23:59	-		RO	08
P0058	Third Fault	0 to 999	-		RO	08
P0059	Third Fault Day/Month	00/00 to 31/12	-		RO	08
P0060	Third Fault Year	00 to 99	-		RO	08
P0061	Third Fault Time	00:00 to 23:59	-		RO	08

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
P0062	Fourth Fault	0 to 999	-		RO	08
P0063	Fourth Flt. Day/Month	00/00 to 31/12	-		RO	08
P0064	Fourth Fault Year	00 to 99	-		RO	08
P0065	Fourth Fault Time	00:00 to 23:59	-		RO	08
P0066	Fifth Fault	0 to 999	-		RO	08
P0067	Fifth Fault Day/Month	00/00 to 31/12	-		RO	08
P0068	Fifth Fault Year	00 to 99	-		RO	08
P0069	Fifth Fault Time	00:00 to 23:59	-		RO	08
P0070	Sixth Fault	0 to 999	-		RO	08
P0071	Sixth Fault Day/Month	00/00 to 31/12	-		RO	08
P0072	Sixth Fault Year	00 to 99	-		RO	08
P0073	Sixth Fault Time	00:00 to 23:59	-		RO	08
P0074	Seventh Fault	0 to 999	-		RO	08
P0075	Seventh Flt.Day/Month	00/00 to 31/12	-		RO	08
P0076	Seventh Fault Year	00 to 99	-		RO	08
P0077	Seventh Fault Time	00:00 to 23:59	-		RO	08
P0078	Eighth Fault	0 to 999	-		RO	08
P0079	Eighth Flt. Day/Month	00/00 to 31/12	-		RO	08
P0080	Eighth Fault Year	00 to 99	-		RO	08
P0081	Eighth Fault Time	00:00 to 23:59	-		RO	08
P0082	Ninth Fault	0 to 999	-		RO	08
P0083	Ninth Fault Day/Month	00/00 to 31/12	-		RO	08
P0084	Ninth Fault Year	00 to 99	-		RO	08
P0085	Ninth Fault Time	00:00 to 23:59	-		RO	08
P0086	Tenth Fault	0 to 999	-		RO	08
P0087	Tenth Fault Day/Month	00/00 to 31/12	-		RO	08
P0088	Tenth Fault Year	00 to 99	-		RO	08
P0089	Tenth Fault Time	00:00 to 23:59	-		RO	08
P0090	Current At Last Fault	0.0 to 4000.0 A	-		RO	08
P0091	DC Link At Last Fault	0 to 2000 V	-		RO	08
P0092	Speed At Last Fault	0 to 18000 rpm	-		RO	08
P0093	Reference Last Fault	0 to 18000 rpm	-		RO	08
P0094	Frequency Last Fault	0.0 to 300.0 Hz	-		RO	08
P0095	Motor Volt.Last Fault	0 to 2000 V	-		RO	08
P0096	Dlx Status Last Fault	0000h to 00FFh	-		RO	08
P0097	DOx Status Last Fault	0000h to 001Fh	-		RO	08
P0100	Acceleration Time	0.0 to 999.0 s	20.0 s		-	04, 20
P0101	Deceleration Time	0.0 to 999.0 s	20.0 s		-	04, 20
P0102	Acceleration Time 2	0.0 to 999.0 s	20.0 s		-	20
P0103	Deceleration Time 2	0.0 to 999.0 s	20.0 s		-	20
P0104	S Ramp	0 = Off 1 = 50% 2 = 100%	0 = Off		-	20
P0120	Speed Ref. Backup	0 = Off 1 = On	1 = On		-	21
P0121	Keypad Reference	0 to 18000 rpm	90 rpm		-	21
P0122	JOG/JOG+ Reference	0 to 18000 rpm	150 (125) rpm		-	21
P0123	JOG- Reference	0 to 18000 rpm	150 (125) rpm		Vector	21
P0124	Multispeed Ref. 1	0 to 18000 rpm	90 (75) rpm		-	21, 36
P0125	Multispeed Ref. 2	0 to 18000 rpm	300 (250) rpm		-	21, 36
P0126	Multispeed Ref. 3	0 to 18000 rpm	600 (500) rpm		-	21, 36
P0127	Multispeed Ref. 4	0 to 18000 rpm	900 (750) rpm		-	21, 36
P0128	Multispeed Ref. 5	0 to 18000 rpm	1200 (1000) rpm		-	21, 36
P0129	Multispeed Ref. 6	0 to 18000 rpm	1500 (1250) rpm		-	21, 36
P0130	Multispeed Ref. 7	0 to 18000 rpm	1800 (1500) rpm		-	21, 36
P0131	Multispeed Ref. 8	0 to 18000 rpm	1650 (1375) rpm		-	21, 36
P0132	Max. Overspeed Level	0 to 100 %	10 %		CFG	22, 45
P0133	Minimum Speed	0 to 18000 rpm	90 (75) rpm		-	04, 22
P0134	Maximum Speed	0 to 18000 rpm	1800 (1500) rpm		-	04, 22
P0135	Max. Output Current	0.2 to 2xI <sub>nom-HD</sub>	1.5xI <sub>nom-HD</sub>		V/f and VVW	04, 26
P0136	Manual Torque Boost	0 to 9	1		V/f	04, 23
P0137	Autom. Torque Boost	0.00 to 1.00	0.00		V/f	23
P0138	Slip Compensation	-10.0 to 10.0 %	0.0 %		V/f	23
P0139	Output Current Filter	0.0 to 16.0 s	0.2 s		V/f and VVW	23, 25
P0140	Dwell Time At Start	0.0 to 10.0 s	0.0 s		V/f and VVW	23, 25
P0141	Dwell Speed At Start	0 to 300 rpm	90 rpm		V/f and VVW	23, 25
P0142	Max. Output Voltage	0.0 to 100.0 %	100.0 %		CFG and Adj	24
P0143	Interm.Output Voltage	0.0 to 100.0 %	50.0 %		CFG and Adj	24



Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
P0144	3Hz Output Voltage	0.0 to 100.0 %	8.0 %		CFG and Adj	24
P0145	Field Weakening Speed	0 to 18000 rpm	1800 rpm		CFG and Adj	24
P0146	Intermediate Speed	0 to 18000 rpm	900 rpm		CFG and Adj	24
P0150	DC Regul. Type V/f	0 = Ramp Hold 1 = Ramp Accel.	0 = Ramp Hold		CFG, V/f and VVW	27
P0151	DC Regul. Level V/f	339 to 400 V 585 to 800 V 585 to 800 V 585 to 800 V 585 to 800 V 809 to 1000 V 809 to 1000 V 924 to 1200 V 924 to 1200 V	400 V (P0296=0) 800 V (P0296=1) 800 V (P0296=2) 800 V (P0296=3) 800 V (P0296=4) 1000 V (P0296=5) 1000 V (P0296=6) 1000 V (P0296=7) 1200 V (P0296=8)		V/f and VVW	27
P0152	DC Link Regul. P Gain	0.00 to 9.99	1.50		V/f and VVW	27
P0153	Dyn. Braking Level	339 to 400 V 585 to 800 V 585 to 800 V 585 to 800 V 585 to 800 V 809 to 1000 V 809 to 1000 V 924 to 1200 V 924 to 1200 V	375 V (P0296=0) 618 V (P0296=1) 675 V (P0296=2) 748 V (P0296=3) 780 V (P0296=4) 893 V (P0296=5) 972 V (P0296=6) 972 V (P0296=7) 1174 V (P0296=8)		-	28
P0154	Dyn. Braking Resistor	0.0 to 500.0 ohm	0.0 ohm		-	28
P0155	Dyn. B. Resist. Power	0.02 to 650.00 kW	2.60 kW		-	28
P0156	Overl.Curr.100% Speed	0.1 to 1.5xI <sub>nom-HD</sub>	1.05xI <sub>nom-HD</sub>		-	45
P0157	Overl.Curr. 50% Speed	0.1 to 1.5xI <sub>nom-HD</sub>	0.9xI <sub>nom-HD</sub>		-	45
P0158	Overl.Curr. 5% Speed	0.1 to 1.5xI <sub>nom-HD</sub>	0.5xI <sub>nom-HD</sub>		-	45
P0159	Motor Thermal Class	0 = Class 5 1 = Class 10 2 = Class 15 3 = Class 20 4 = Class 25 5 = Class 30 6 = Class 35 7 = Class 40 8 = Class 45	1 = Class 10		CFG	45
P0160	Speed Regul. Optimiz.	0 = Normal 1 = Saturated	0 = Normal		CFG and Vector	90
P0161	Speed Prop. Gain	0.0 to 63.9	7.4		Vector	90
P0162	Speed Integral Gain	0.000 to 9.999	0.023		Vector	90
P0163	LOC Reference Offset	-999 to 999	0		Vector	90
P0164	REM Reference Offset	-999 to 999	0		Vector	90
P0165	Speed Filter	0.012 to 1.000 s	0.012 s		Vector	90
P0166	Speed Diff. Gain	0.00 to 7.99	0.00		Vector	90
P0167	Current Prop. Gain	0.00 to 1.99	0.50		Vector	91
P0168	Current Integral Gain	0.000 to 1.999	0.010		Vector	91
P0169	Max. CW Torque Curr.	0.0 to 650.0 %	125.0 %		Vector	95
P0170	Max. CCW Torque Curr.	0.0 to 650.0 %	125.0 %		Vector	95
P0171	CW Torque Cur at Nmax	0.0 to 650.0 %	125.0 %		Vector	95
P0172	CCW TorqueCur at Nmax	0.0 to 650.0 %	125.0 %		Vector	95
P0173	Max Torque Curve Type	0 = Ramp 1 = Step	0 = Ramp		Vector	95
P0175	Flux Proport. Gain	0.0 to 31.9	2.0		Vector	92
P0176	Flux Integral Gain	0.000 to 9.999	0.020		Vector	92
P0178	Rated Flux	0 to 120 %	100 %		Vector	92
P0179	Maximum Flux	0 to 120 %	120 %		Vector	92
P0180	Field Weakening Point	0 to 120 %	95 %		Sless	92
P0181	Magnetization Mode	0 = General Enable 1 = Run/Stop	0 = General Enable		CFG and Encoder	92
P0182	Speed for I/F Activ.	0 to 90 rpm	18 rpm		Sless	93
P0183	Current in I/F Mode	0 to 9	1		Sless	93

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0184</b>	DC Link Regul. Mode	0 = With losses 1 = Without losses 2 = Enab/Disab Dlx	1 = Without losses		CFG and Vector	96
<b>P0185</b>	DC Link Regul. Level	339 to 400 V 585 to 800 V 585 to 800 V 585 to 800 V 585 to 800 V 809 to 1000 V 809 to 1000 V 924 to 1200 V 924 to 1200 V	400 V (P0296=0) 800 V (P0296=1) 800 V (P0296=2) 800 V (P0296=3) 800 V (P0296=4) 1000 V (P0296=5) 1000 V (P0296=6) 1000 V (P0296=7) 1200 V (P0296=8)		Vector	96
<b>P0186</b>	DC Link Prop. Gain	0.0 to 63.9	18.0		Vector	96
<b>P0187</b>	DC Link Integral Gain	0.000 to 9.999	0.002		Vector	96
<b>P0188</b>	Voltage Proport. Gain	0.000 to 7.999	0.200		Encoder	92
<b>P0189</b>	Voltage Integral Gain	0.000 to 7.999	0.001		Encoder	92
<b>P0190</b>	Max. Output Voltage	0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V	209 V (P0296=0) 361 V (P0296=1) 380 V (P0296=2) 418 V (P0296=3) 456 V (P0296=4) 499 V (P0296=5) 546 V (P0296=6) 570 V (P0296=7) 656 V (P0296=8)		Encoder	92
<b>P0194</b>	Day	01 to 31	01		-	30
<b>P0195</b>	Month	01 to 12	01		-	30
<b>P0196</b>	Year	00 to 99	06		-	30
<b>P0197</b>	Hour	00 to 23	00		-	30
<b>P0198</b>	Minutes	00 to 59	00		-	30
<b>P0199</b>	Seconds	00 to 59	00		-	30
<b>P0200</b>	Password	0 = Off 1 = On 2 = Change Pass.	1 = On		-	30
<b>P0201</b>	Language	0 = Português 1 = English 2 = Español 3 = Deutsch	0 = Português		-	30
<b>P0202</b>	Type of Control	0 = V/f 60 Hz 1 = V/f 50 Hz 2 = V/f Adjustable 3 = Sensorless 4 = Encoder 5 = VVW	0 = V/f 60 Hz		CFG	05, 23, 24, 25, 90, 91, 92, 93, 94, 95, 96
<b>P0203</b>	Special Function Sel.	0 = None 1 = PID Regulator	0 = None		CFG	46
<b>P0204</b>	Load/Save Parameters	0 = Not Used 1 = Not Used 2 = Reset P0045 3 = Reset P0043 4 = Reset P0044 5 = Load 60Hz 6 = Load 50Hz 7 = Load User 1 8 = Load User 2 9 = Load User 3 10 = Save User 1 11 = Save User 2 12 = Save User 3	0 = Not Used		CFG	06

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0205</b>	Read Parameter Sel. 1	0 = Not selected 1 = Speed Refer. # 2 = Motor Speed # 3 = MotorCurrent # 4 = DC Link Volt # 5 = Motor Freq. # 6 = MotorVoltage # 7 = Motor Torque # 8 = Output Power # 9 = Process Var. # 10 = Setpoint PID # 11 = Speed Refer. - 12 = Motor Speed - 13 = MotorCurrent - 14 = DC Link Volt - 15 = Motor Freq. - 16 = MotorVoltage - 17 = Motor Torque - 18 = Output Power - 19 = Process Var. - 20 = Setpoint PID -	2 = Motor Speed #		-	30
<b>P0206</b>	Read Parameter Sel. 2	See options in P0205	3 = Motor Current #		-	30
<b>P0207</b>	Read Parameter Sel. 3	See options in P0205	5 = Motor Freq. #		-	30
<b>P0208</b>	Ref. Scale Factor	1 to 18000	1800 (1500)		-	30
<b>P0209</b>	Ref. Eng. Unit 1	32 to 127	114		-	30
<b>P0210</b>	Ref. Eng. Unit 2	32 to 127	112		-	30
<b>P0211</b>	Ref. Eng. Unit 3	32 to 127	109		-	30
<b>P0212</b>	Ref. Decimal Point	0 = wxyz 1 = wxy.z 2 = wx.yz 3 = w.xyz	0 = wxyz		-	30
<b>P0213</b>	Full Scale Read 1	0.0 to 200.0 %	100.0 %		CFG	30
<b>P0214</b>	Full Scale Read 2	0.0 to 200.0 %	100.0 %		CFG	30
<b>P0215</b>	Full Scale Read 3	0.0 to 200.0 %	100.0 %		CFG	30
<b>P0216</b>	HMI Display Contrast	0 to 37	27		-	30
<b>P0217</b>	Zero Speed Disable	0 = Off 1 = On	0 = Off		CFG	35, 46
<b>P0218</b>	Zero Speed Dis. Out	0 = Ref. or Speed 1 = Reference	0 = Ref. or Speed		-	35, 46
<b>P0219</b>	Zero Speed Time	0 to 999 s	0 s		-	35, 46
<b>P0220</b>	LOC/REM Selection Src	0 = Always LOC 1 = Always REM 2 = LR Key LOC 3 = LR Key REM 4 = DIx 5 = Serial/USB LOC 6 = Serial/USB REM 7 = Anybus-CC LOC 8 = Anybus-CC REM 9 = CANop/DNet LOC 10 = CANop/DNet REM 11 = SoftPLC LOC 12 = SoftPLC REM	2 = LR Key LOC		CFG	31, 32, 33, 110

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0221</b>	LOC Reference Sel.	0 = Keypad 1 = AI1 2 = AI2 3 = AI3 4 = AI4 5 = Sum AIs > 0 6 = Sum AIs 7 = E.P. 8 = Multispeed 9 = Serial/USB 10 = Anybus-CC 11 = CANop/DNet 12 = SoftPLC	0 = Keypad		CFG	31, 36, 37, 38, 110
<b>P0222</b>	REM Reference Sel.	See options in P0221	1 = AI1		CFG	32, 36, 37, 38, 110
<b>P0223</b>	LOC FWD/REV Selection	0 = Always FWD 1 = Always REV 2 = FR Key FWD 3 = FR Key REV 4 = Dlx 5 = Serial/USB FWD 6 = Serial/USB REV 7 = Anybus-CC FWD 8 = Anybus-CC REV 9 = CANop/DNet FWD 10 = CANop/DNet REV 11 = AI4 Polarity 12 = SoftPLC FWD 13 = SoftPLC REV 14 = AI2 Polarity	2 = FR Key FWD		CFG	31, 33, 110
<b>P0224</b>	LOC Run/Stop Sel.	0 = I,O Keys 1 = Dlx 2 = Serial/USB 3 = Anybus-CC 4 = CANop/DNet 5 = SoftPLC	0 = I,O Keys		CFG	31, 33, 110
<b>P0225</b>	LOC JOG Selection	0 = Disable 1 = JOG Key 2 = Dlx 3 = Serial/USB 4 = Anybus-CC 5 = CANop/DNet 6 = SoftPLC	1 = JOG Key		CFG	31, 110
<b>P0226</b>	REM FWD/REV Sel.	See options in P0223	4 = Dlx		CFG	32, 33, 110
<b>P0227</b>	REM Run/Stop Sel.	See options in P0224	1 = Dlx		CFG	32, 33, 110
<b>P0228</b>	REM JOG Selection	See options in P0225	2 = Dlx		CFG	32, 110
<b>P0229</b>	Stop Mode Selection	0 = Ramp to Stop 1 = Coast to Stop 2 = Fast Stop	0 = Ramp to Stop		CFG	31, 32, 33, 34
<b>P0230</b>	Dead Zone (AIs)	0 = Off 1 = On	0 = Off		-	38
<b>P0231</b>	AI1 Signal Function	0 = Speed Ref. 1 = No Ramp Ref. 2 = Max.Torque Cur 3 = Process Var. 4 = PTC 5 = Not Used 6 = Not Used	0 = Speed Ref.		CFG	38, 95
<b>P0232</b>	AI1 Gain	0.000 to 9.999	1.000		-	38, 95

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0233</b>	A11 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA	0 = 0 to 10V/20mA		CFG	38, 95
<b>P0234</b>	A11 Offset	-100.00 to 100.00 %	0.00 %		-	38, 95
<b>P0235</b>	A11 Filter	0.00 to 16.00 s	0.00 s		-	38, 95
<b>P0236</b>	A12 Signal Function	See options in P0231	0 = Speed Ref.		CFG	38, 95
<b>P0237</b>	A12 Gain	0.000 to 9.999	1.000		-	38, 95
<b>P0238</b>	A12 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA 4 = -10 to +10V	0 = 0 to 10V/20mA		CFG	38, 95
<b>P0239</b>	A12 Offset	-100.00 to 100.00 %	0.00 %		-	38, 95
<b>P0240</b>	A12 Filter	0.00 to 16.00 s	0.00 s		-	38, 95
<b>P0241</b>	A13 Signal Function	0 = Speed Ref. 1 = No Ramp Ref. 2 = Max.Torque Cur 3 = Process Var. 4 = PTC 5 = Not Used 6 = Not Used	0 = Speed Ref.		CFG	38, 95
<b>P0242</b>	A13 Gain	0.000 to 9.999	1.000		-	38, 95
<b>P0243</b>	A13 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA	0 = 0 to 10V/20mA		CFG	38, 95
<b>P0244</b>	A13 Offset	-100.00 to 100.00 %	0.00 %		-	38, 95
<b>P0245</b>	A13 Filter	0.00 to 16.00 s	0.00 s		-	38, 95
<b>P0246</b>	A14 Signal Function	0 = Speed Ref. 1 = No Ramp Ref. 2 = Max.Torque Cur 3 = Process Var. 4 = Not Used 5 = Not Used 6 = Not Used	0 = Speed Ref.		CFG	38, 95
<b>P0247</b>	A14 Gain	0.000 to 9.999	1.000		-	38, 95
<b>P0248</b>	A14 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA 4 = -10 to +10 V	0 = 0 to 10V/20mA		CFG	38, 95
<b>P0249</b>	A14 Offset	-100.00 to 100.00 %	0.00 %		-	38, 95
<b>P0250</b>	A14 Filter	0.00 to 16.00 s	0.00 s		-	38, 95



Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0251</b>	A01 Function	0 = Speed Ref. 1 = Total Ref. 2 = Real Speed 3 = Torque Cur.Ref 4 = Torque Current 5 = Output Current 6 = Process Var. 7 = Active Current 8 = Output Power 9 = PID Setpoint 10 = Torque Cur.> 0 11 = Motor Torque 12 = SoftPLC 13 = PTC 14 = Not Used 15 = Not Used 16 = Motor lxt 17 = Encoder Speed 18 = P0696 Value 19 = P0697 Value 20 = P0698 Value 21 = P0699 Value	2 = Real Speed		-	39
<b>P0252</b>	A01 Gain	0.000 to 9.999	1.000		-	39
<b>P0253</b>	A01 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA	0 = 0 to 10V/20mA		CFG	39
<b>P0254</b>	A02 Function	See options in P0251	5 = Output Current		-	39
<b>P0255</b>	A02 Gain	0.000 to 9.999	1.000		-	39
<b>P0256</b>	A02 Signal Type	0 = 0 to 10V/20mA 1 = 4 to 20 mA 2 = 10V/20mA to 0 3 = 20 to 4 mA	0 = 0 to 10V/20mA		CFG	39
<b>P0257</b>	A03 Function	0 = Speed Ref. 1 = Total Ref. 2 = Real Speed 3 = Torque Cur.Ref 4 = Torque Current 5 = Output Current 6 = Process Var. 7 = Active Current 8 = Output Power 9 = PID Setpoint 10 = Torque Cur.> 0 11 = Motor Torque 12 = SoftPLC 13 = Not Used 14 = Not Used 15 = Not Used 16 = Motor lxt 17 = Encoder Speed 18 = P0696 Value 19 = P0697 Value 20 = P0698 Value 21 = P0699 Value 22 to 69 = Exclusive WEG use	2 = Real Speed		-	39
<b>P0258</b>	A03 Gain	0.000 to 9.999	1.000		-	39

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0259</b>	AO3 Signal Type	0 = 0 to 20 mA 1 = 4 to 20 mA 2 = 20 to 0 mA 3 = 20 to 4 mA 4 = 0 to 10 V 5 = 10 to 0 V 6 = -10 to +10V	4 = 0 to 10 V		CFG	39
<b>P0260</b>	AO4 Function	See options in P0257	5 = Output Current		-	39
<b>P0261</b>	AO4 Gain	0.000 to 9.999	1.000		-	39
<b>P0262</b>	AO4 Signal Type	0 = 0 to 20 mA 1 = 4 to 20 mA 2 = 20 to 0 mA 3 = 20 to 4 mA 4 = 0 to 10 V 5 = 10 to 0 V 6 = -10 to +10V	4 = 0 to 10 V		CFG	39
<b>P0263</b>	DI1 Function	0 = Not Used 1 = Run/Stop 2 = General Enable 3 = Fast Stop 4 = FWD Run 5 = REV Run 6 = 3-Wire Start 7 = 3-Wire Stop 8 = FWD/REV 9 = LOC/REM 10 = JOG 11 = Increase EP 12 = Decrease EP 13 = Not Used 14 = Ramp 2 15 = Speed/Torque 16 = JOG+ 17 = JOG- 18 = No Ext. Alarm 19 = No Ext. Fault 20 = Reset 21 = Not Used 22 = Manual/Auto 23 = Motor Thermis. 24 = Disab.FlyStart 25 = DC Link Regul. 26 = Progr. Off 27 = Load User 1/2 28 = Load User 3 29 = DO2 Timer 30 = DO3 Timer 31 = Trace Function	1 = Run/Stop		CFG	20, 31, 32, 33, 34, 37, 40, 44, 46
<b>P0264</b>	DI2 Function	See options in P0263	8 = FWD/REV		CFG	20, 31, 32, 33, 34, 37, 40, 44, 46
<b>P0265</b>	DI3 Function	See options in P0263	0 = Not Used		CFG	20, 31, 32, 33, 34, 37, 40, 44, 45, 46

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0266</b>	DI4 Function	0 = Not Used 1 = Run/Stop 2 = General Enable 3 = Fast Stop 4 = FWD Run 5 = REV Run 6 = 3-Wire Start 7 = 3-Wire Stop 8 = FWD/REV 9 = LOC/REM 10 = JOG 11 = Increase EP 12 = Decrease EP 13 = Multispeed 14 = Ramp 2 15 = Speed/Torque 16 = JOG+ 17 = JOG- 18 = No Ext. Alarm 19 = No Ext. Fault 20 = Reset 21 = Not Used 22 = Manual/Auto 23 = Motor Thermis. 24 = Disab.FlyStart 25 = DC Link Regul. 26 = Progr. Off 27 = Load User 1/2 28 = Load User 3 29 = DO2 Timer 30 = DO3 Timer 31 = Trace Function	0 = Not Used		CFG	20, 31, 32, 33, 34, 36, 37, 40, 44, 45, 46
<b>P0267</b>	DI5 Function	See options in P0266	10 = JOG		CFG	20, 31, 32, 33, 34, 36, 37, 40, 44, 45, 46
<b>P0268</b>	DI6 Function	See options in P0266	14 = Ramp 2		CFG	20, 31, 32, 33, 34, 36, 37, 40, 44, 45, 46
<b>P0269</b>	DI7 Function	See options in P0263	0 = Not Used		CFG	20, 31, 32, 33, 34, 37, 40, 44, 45, 46

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0270</b>	D18 Function	0 = Not Used 1 = Run/Stop 2 = General Enable 3 = Fast Stop 4 = FWD Run 5 = REV Run 6 = 3-Wire Start 7 = 3-Wire Stop 8 = FWD/REV 9 = LOC/REM 10 = JOG 11 = Increase EP 12 = Decrease EP 13 = Not Used 14 = Ramp 2 15 = Speed/Torque 16 = JOG+ 17 = JOG- 18 = No Ext. Alarm 19 = No Ext. Fault 20 = Reset 21 = Not Used 22 = Manual/Auto 23 = Motor Thermis. 24 = Disab.FlyStart 25 = DC Link Regul. 26 = Parametriz.Off 27 = Load User 1/2 28 = Load User 3 29 = D02 Timer 30 = D03 Timer 31 = Trace Function	0 = Not Used		CFG	20, 31, 32, 33, 34, 37, 40, 44, 45, 46

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
P0275	DO1 Function (RL1)	0 = Not Used 1 = N* > Nx 2 = N > Nx 3 = N < Ny 4 = N = N* 5 = Zero Speed 6 = Is > lx 7 = Is < lx 8 = Torque > Tx 9 = Torque < Tx 10 = Remote 11 = Run 12 = Ready 13 = No Fault 14 = No F070 15 = No F071 16 = No F006/21/22 17 = No F051/54/57 18 = No F072 19 = 4-20mA OK 20 = P0695 Value 21 = Forward 22 = Proc. V. > PVx 23 = Proc. V. < PVy 24 = Ride-Through 25 = Pre-Charge OK 26 = Fault 27 = Time Enab > Hx 28 = SoftPLC 29 = Not Used 30 = N > Nx/Nt > Nx 31 = F > Fx (1) 32 = F > Fx (2) 33 = STO 34 = No F160 35 = No Alarm 36 = No Fault and No Alarm	13 = No Fault		CFG	41



Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0276</b>	DO2 Function (RL2)	0 = Not Used 1 = N* > Nx 2 = N > Nx 3 = N < Ny 4 = N = N* 5 = Zero Speed 6 = Is > lx 7 = Is < lx 8 = Torque > Tx 9 = Torque < Tx 10 = Remote 11 = Run 12 = Ready 13 = No Fault 14 = No F070 15 = No F071 16 = No F006/21/22 17 = No F051/54/57 18 = No F072 19 = 4-20mA OK 20 = P0695 Value 21 = Forward 22 = Proc. V. > PVx 23 = Proc. V. < PVy 24 = Ride-Through 25 = Pre-Charge OK 26 = Fault 27 = Time Enab > Hx 28 = SoftPLC 29 = Timer 30 = N>Nx/Nt>Nx 31 = F > Fx (1) 32 = F > Fx (2) 33 = STO 34 = No F160 35 = No Alarm 36 = No Fault and No Alarm	2 = N > Nx		CFG	41
<b>P0277</b>	DO3 Function (RL3)	See options in P0276	1 = N* > Nx		CFG	41
<b>P0278</b>	DO4 Function	See options in P0275	0 = Not Used		CFG	41
<b>P0279</b>	DO5 Function	See options in P0275	0 = Not Used		CFG	41
<b>P0281</b>	Fx Frequency	0.0 to 300.0 Hz	4.0 Hz		-	41
<b>P0282</b>	Fx Hysteresis	0.0 to 15.0 Hz	2.0 Hz		-	41
<b>P0283</b>	DO2 ON Time	0.0 to 300.0 s	0.0 s		-	41
<b>P0284</b>	DO2 OFF Time	0.0 to 300.0 s	0.0 s		-	41
<b>P0285</b>	DO3 ON Time	0.0 to 300.0 s	0.0 s		-	41
<b>P0286</b>	DO3 OFF Time	0.0 to 300.0 s	0.0 s		-	41
<b>P0287</b>	Nx/Ny Hysteresis	0 to 900 rpm	18 (15) rpm		-	41
<b>P0288</b>	Nx Speed	0 to 18000 rpm	120 (100) rpm		-	41
<b>P0289</b>	Ny Speed	0 to 18000 rpm	1800 (1500) rpm		-	41
<b>P0290</b>	lx Current	0 to 2x <sub>nom-HD</sub>	1.0x <sub>nom-HD</sub>		-	41
<b>P0291</b>	Zero Speed Zone	0 to 18000 rpm	18 (15) rpm		-	35, 41, 46
<b>P0292</b>	N = N* Band	0 to 18000 rpm	18 (15) rpm		-	41
<b>P0293</b>	Tx Torque	0 to 200 %	100 %		-	41
<b>P0294</b>	Hx Time	0 to 6553 h	4320 h		-	41

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0295</b>	ND/HD VFD Rated Curr.	0 = 3.6A / 3.6A 1 = 5A / 5A 2 = 6A / 5A 3 = 7A / 5.5A 4 = 7A / 7A 5 = 10A / 8A 6 = 10A / 10A 7 = 13A / 11A 8 = 13.5A / 11A 9 = 16A / 13A 10 = 17A / 13.5A 11 = 24A / 19A 12 = 24A / 20A 13 = 28A / 24A 14 = 31A / 25A 15 = 33.5A / 28A 16 = 38A / 33A 17 = 45A / 36A 18 = 45A / 38A 19 = 54A / 45A 20 = 58.5A / 47A 21 = 70A / 56A 22 = 70.5A / 61A 23 = 86A / 70A 24 = 88A / 73A 25 = 105A / 86A 26 = 427A / 427A 27 = 470A / 470A 28 = 811A / 811A 29 = 893A / 893A 30 = 1216A / 1216A 31 = 1339A / 1339A 32 = 1622A / 1622A 33 = 1786A / 1786A 34 = 2028A / 2028A 35 = 2232A / 2232A 36 = 2A / 2A	-		RO	09, 42
<b>P0296</b>	Line Rated Voltage	0 = 200 - 240 V 1 = 380 V 2 = 400 - 415 V 3 = 440 - 460 V 4 = 480 V 5 = 500 - 525 V 6 = 550 - 575 V 7 = 600 V 8 = 660 - 690 V	According to inverter model		CFG	42
<b>P0297</b>	Switching Frequency	0 = 1.25 kHz 1 = 2.5 kHz 2 = 5.0 kHz 3 = 10.0 kHz	2 = 5.0 kHz		CFG	42
<b>P0298</b>	Application	0 = Normal Duty 1 = Heavy Duty	0 = Normal Duty		CFG	42
<b>P0299</b>	DC-Braking Start Time	0.0 to 15.0 s	0.0 s		V/f, VVW and Sless	47
<b>P0300</b>	DC-Braking Stop Time	0.0 to 15.0 s	0.0 s		V/f, VVW and Sless	47
<b>P0301</b>	DC-Braking Speed	0 to 450 rpm	30 rpm		V/f, VVW and Sless	47
<b>P0302</b>	DC-Braking Voltage	0.0 to 10.0 %	2.0 %		V/f and VVW	47
<b>P0303</b>	Skip Speed 1	0 to 18000 rpm	600 rpm		-	48
<b>P0304</b>	Skip Speed 2	0 to 18000 rpm	900 rpm		-	48

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0305</b>	Skip Speed 3	0 to 18000 rpm	1200 rpm		-	48
<b>P0306</b>	Skip Band	0 to 750 rpm	0 rpm		-	48
<b>P0308</b>	Serial Address	1 to 247	1		CFG	113
<b>P0310</b>	Serial Baud Rate	0 = 9600 bits/s 1 = 19200 bits/s 2 = 38400 bits/s 3 = 57600 bits/s	0 = 9600 bits/s		CFG	113
<b>P0311</b>	Serial Bytes Config.	0 = 8 bits, no, 1 1 = 8 bits, even, 1 2 = 8 bits, odd, 1 3 = 8 bits, no, 2 4 = 8 bits, even, 2 5 = 8 bits, odd, 2	3 = 8 bits, no, 2		CFG	113
<b>P0312</b>	Serial Protocol	1 = TP 2 = Modbus RTU	2 = Modbus RTU		CFG	113
<b>P0313</b>	Comm. Error Action	0 = Off 1 = Ramp Stop 2 = General Disab. 3 = Go to LOC	0 = Off		-	111
<b>P0314</b>	Serial Watchdog	0.0 to 999.0 s	0.0 s		CFG	113
<b>P0316</b>	Serial Interf. Status	0 = Off 1 = On 2 = Watchdog Error	-		RO	09, 113
<b>P0317</b>	Oriented Start-up	0 = No 1 = Yes	0 = No		CFG	02
<b>P0318</b>	Copy Function MemCard	0 = Off 1 = VFD → MemCard 2 = MemCard → VFD	1 = VFD → MemCard		CFG	06
<b>P0319</b>	Copy Function HMI	0 = Off 1 = VFD → HMI 2 = HMI → VFD	0 = Off		CFG	06
<b>P0320</b>	FlyStart/Ride-Through	0 = Off 1 = Flying Start 2 = FS / RT 3 = Ride-Through	0 = Off		CFG	44
<b>P0321</b>	DC Link Power Loss	178 to 282 V 308 to 616 V 308 to 616 V 308 to 616 V 308 to 616 V 425 to 737 V 425 to 737 V 486 to 885 V 486 to 885 V	252 V (P0296=0) 436 V (P0296=1) 459 V (P0296=2) 505 V (P0296=3) 551 V (P0296=4) 602 V (P0296=5) 660 V (P0296=6) 689 V (P0296=7) 792 V (P0296=8)		Vector	44
<b>P0322</b>	DC Link Ride-Through	178 to 282 V 308 to 616 V 308 to 616 V 308 to 616 V 308 to 616 V 425 to 737 V 425 to 737 V 486 to 885 V 486 to 885 V	245 V (P0296=0) 423 V (P0296=1) 446 V (P0296=2) 490 V (P0296=3) 535 V (P0296=4) 585 V (P0296=5) 640 V (P0296=6) 668 V (P0296=7) 768 V (P0296=8)		Vector	44
<b>P0323</b>	DC Link Power Back	178 to 282 V 308 to 616 V 308 to 616 V 308 to 616 V 308 to 616 V 425 to 737 V 425 to 737 V 486 to 885 V 486 to 885 V	267 V (P0296=0) 462 V (P0296=1) 486 V (P0296=2) 535 V (P0296=3) 583 V (P0296=4) 638 V (P0296=5) 699 V (P0296=6) 729 V (P0296=7) 838 V (P0296=8)		Vector	44

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
P0325	Ride-Through P Gain	0.0 to 63.9	22.8		Vector	44
P0326	Ride-Through I Gain	0.000 to 9.999	0.128		Vector	44
P0327	F.S. Current Ramp I/f	0.000 to 1.000 s	0.070 s		Sless	44
P0328	Flying Start Filter	0.000 to 1.000 s	0.085 s		Sless	44
P0329	Frequency Ramp F.S.	2.0 to 50.0	6.0		Sless	44
P0331	Voltage Ramp	0.2 to 60.0 s	2.0 s		V/f and VVW	44
P0332	Dead Time	0.1 to 10.0 s	1.0 s		V/f and VVW	44
P0340	Auto-Reset Time	0 to 255 s	0 s			45
P0342	Motor Unbal.Curr.Conf	0 = Off 1 = On	0 = Off		CFG	45
P0343	Ground Fault Config.	0 = Off 1 = On	1 = On		CFG	45
P0344	Current Lim. Conf.	0 = Hold - FL ON 1 = Decel. - FL ON 2 = Hold - FL OFF 3 = Decel.- FL OFF	1 = Decel. - FL ON		CFG, V/f and VVW	26
P0348	Motor Overload Conf.	0 = Off 1 = Fault/Alarm 2 = Fault 3 = Alarm	1 = Fault/Alarm		CFG	45
P0349	Ixt Alarm Level	70 to 100 %	85 %		CFG	45
P0350	IGBTs Overload Conf.	0 = F, w/ SF rd. 1 = F/A, w/ SF rd. 2 = F, no SF rd. 3 = F/A, no SF rd.	1 = F/A, w/ SF rd.		CFG	45
P0351	Motor Overtemp. Conf.	0 = Off 1 = Fault/Alarm 2 = Fault 3 = Alarm	1 = Fault/Alarm		CFG	45
P0352	Fan Control Config.	0 = HS-OFF,Int-OFF 1 = HS-ON,Int-ON 2 = HS-CT,Int-CT 3 = HS-CT,Int-OFF 4 = HS-CT,Int-ON 5 = HS-ON,Int-OFF 6 = HS-ON,Int-CT 7 = HS-OFF,Int-ON 8 = HS-OFF,Int-CT	2 = HS-CT,Int-CT		CFG	45
P0353	IGBTs/Air Overtmp.Cfg	0 = HS-F/A,Air-F/A 1 = HS-F/A, Air-F 2 = HS-F, Air-F/A 3 = HS-F, Air-F	0 = HS-F/A,Air-F/A		CFG	45
P0354	Fan Speed Config.	0 = Off 1 = Fault	1 = Fault		CFG	45
P0356	Dead Time Compens.	0 = Off 1 = On	1 = On		CFG	45
P0357	Line Phase Loss Time	0 to 60 s	3 s		-	45
P0359	Motor Current Stabil.	0 = Off 1 = On	0 = Off		V/f and VVW	45
P0372	DC-Braking Curr Sless	0.0 to 90.0 %	40.0 %		Sless	47
P0397	Slip Compens. Regen.	0 = Off 1 = On	1 = On		CFG and VVW	25
P0398	Motor Service Factor	1.00 to 1.50	1.15		CFG	05, 43, 94
P0399	Motor Rated Eff.	50.0 to 99.9 %	67.0 %		CFG and VVW	05, 43, 94
P0400	Motor Rated Voltage	0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V 0 to 690 V	220 V (P0296=0) 440 V (P0296=1) 440 V (P0296=2) 440 V (P0296=3) 440 V (P0296=4) 575 V (P0296=5) 575 V (P0296=6) 690 V (P0296=7) 690 V (P0296=8)		CFG	05, 43, 94

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0401</b>	Motor Rated Current	0 to 1.3xI <sub>nom-ND</sub>	1.0xI <sub>nom-ND</sub>		CFG	05, 43, 94
<b>P0402</b>	Motor Rated Speed	0 to 18000 rpm	1750 (1458) rpm		CFG	05, 43, 94
<b>P0403</b>	Motor Rated Frequency	0 to 300 Hz	60 (50) Hz		CFG	05, 43, 94
<b>P0404</b>	Motor Rated Power	0 = 0.33hp 0.25kW 1 = 0.5hp 0.37kW 2 = 0.75hp 0.55kW 3 = 1hp 0.75kW 4 = 1.5hp 1.1kW 5 = 2hp 1.5kW 6 = 3hp 2.2kW 7 = 4hp 3kW 8 = 5hp 3.7kW 9 = 5.5hp 4kW 10 = 6hp 4.5kW 11 = 7.5hp 5.5kW 12 = 10hp 7.5kW 13 = 12.5hp 9kW 14 = 15hp 11kW 15 = 20hp 15kW 16 = 25hp 18.5kW 17 = 30hp 22kW 18 = 40hp 30kW 19 = 50hp 37kW 20 = 60hp 45kW 21 = 75hp 55kW 22 = 100hp 75kW 23 = 125hp 90kW 24 = 150hp 110kW 25 = 175hp 130kW 26 = 180hp 132kW 27 = 200hp 150kW 28 = 220hp 160kW 29 = 250hp 185kW 30 = 270hp 200kW 31 = 300hp 220kW 32 = 350hp 260kW 33 = 380hp 280kW 34 = 400hp 300kW 35 = 430hp 315kW 36 = 440hp 330kW 37 = 450hp 335kW 38 = 475hp 355kW 39 = 500hp 375kW 40 = 540hp 400kW 41 = 600hp 450kW 42 = 620hp 460kW 43 = 670hp 500kW 44 = 700hp 525kW 45 = 760hp 570kW 46 = 800hp 600kW 47 = 850hp 630kW 48 = 900hp 670kW 49 = 1000hp 736kW 50 = 1100hp 810kW 51 = 1250hp 920kW 52 = 1400hp 1030kW 53 = 1500hp 1110kW 54 = 1600hp 1180kW 55 = 1800hp 1330kW 56 = 2000hp 1480kW 57 = 2300hp 1700kW 58 = 2500hp 1840kW	Motor <sub>max-ND</sub>		CFG	05, 43, 94



Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0405</b>	Encoder Pulses Number	100 to 9999 ppr	1024 ppr		CFG	05, 43, 94
<b>P0406</b>	Motor Ventilation	0 = Self-Vent. 1 = Separate Vent. 2 = Optimal Flux	0 = Self-Vent.		CFG	05, 43, 94
<b>P0407</b>	Motor Rated Power Fac	0.50 to 0.99	0.68		CFG and VVW	05, 43, 94
<b>P0408</b>	Run Self-Tuning	0 = No 1 = No Rotation 2 = Run for $I_m$ 3 = Run for $T_m$ 4 = Estimate $T_m$	0 = No		CFG, VVW and Vector	05, 43, 94
<b>P0409</b>	Stator Resistance	0.000 to 9.999 ohm	0.000 ohm		CFG, VVW and Vector	05, 43, 94
<b>P0410</b>	Magnetization Current	0 to $1.25xI_{nom-ND}$	$I_{mag-ND}$		-	05, 43, 94
<b>P0411</b>	Leakage Inductance	0.00 to 99.99 mH	0.00 mH		CFG and Vector	05, 43, 94
<b>P0412</b>	$T_r$ Time Constant	0.000 to 9.999 s	0.000 s		Vector	05, 43, 94
<b>P0413</b>	$T_m$ Time Constant	0.00 to 99.99 s	0.00 s		Vector	05, 43, 94
<b>P0520</b>	PID Proportional Gain	0.000 to 7.999	1.000		-	46
<b>P0521</b>	PID Integral Gain	0.000 to 7.999	0.043		-	46
<b>P0522</b>	PID Differential Gain	0.000 to 3.499	0.000		-	46
<b>P0523</b>	PID Ramp Time	0.0 to 999.0 s	3.0 s		-	46
<b>P0524</b>	PID Feedback Sel.	0 = AI1 (P0231) 1 = AI2 (P0236) 2 = AI3 (P0241) 3 = AI4 (P0246)	1 = AI2 (P0236)		CFG	38, 46
<b>P0525</b>	Keypad PID Setpoint	0.0 to 100.0 %	0.0 %		-	46
<b>P0527</b>	PID Action Type	0 = Direct 1 = Reverse	0 = Direct		-	46
<b>P0528</b>	Proc. V. Scale Factor	1 to 9999	1000		-	46
<b>P0529</b>	Proc.V. Decimal Point	0 = wxyz 1 = wxy.z 2 = wx.yz 3 = w.xyz	1 = wxy.z		-	46
<b>P0530</b>	Proc. V. Eng. Unit 1	32 to 127	37		-	46
<b>P0531</b>	Proc. V. Eng. Unit 2	32 to 127	32		-	46
<b>P0532</b>	Proc. V. Eng. Unit 3	32 to 127	32		-	46
<b>P0533</b>	PVx Value	0.0 to 100.0 %	90.0 %		-	46
<b>P0534</b>	PVy Value	0.0 to 100.0 %	10.0 %		-	46
<b>P0535</b>	Wake Up Band	0 to 100 %	0 %		-	35, 46
<b>P0536</b>	P0525 Autom. Setting	0 = Off 1 = On	1 = On		CFG	46
<b>P0550</b>	Trigger Signal Source	0 = Not selected 1 = Speed Refer. 2 = Motor Speed 3 = Motor Current 4 = DC Link Volt. 5 = Motor Freq. 6 = Motor Voltage 7 = Motor Torque 8 = Process Var. 9 = Setpoint PID 10 = AI1 11 = AI2 12 = AI3 13 = AI4	0 = Not selected		-	52
<b>P0551</b>	Trigger Level	-100.0 to 340.0 %	0.0 %		-	52

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0552</b>	Trigger Condition	0 = P0550* = P0551 1 = P0550* <>P0551 2 = P0550* > P0551 3 = P0550* < P0551 4 = Alarm 5 = Fault 6 = DIx	5 = Fault		-	52
<b>P0553</b>	Trace Sampling Period	1 to 65535	1		-	52
<b>P0554</b>	Trace Pre-Trigger	0 to 100 %	0 %		-	52
<b>P0559</b>	Trace Max. Memory	0 to 100 %	0 %		-	52
<b>P0560</b>	Trace Avail. Memory	0 to 100 %	-		RO	52
<b>P0561</b>	Trace Channel 1 (CH1)	0 = Not selected 1 = Speed Refer. 2 = Motor Speed 3 = Motor Current 4 = DC Link Volt. 5 = Motor Freq. 6 = Motor Voltage 7 = Motor Torque 8 = Process Var. 9 = Setpoint PID 10 = AI1 11 = AI2 12 = AI3 13 = AI4	1 = Speed Refer.		-	52
<b>P0562</b>	Trace Channel 2 (CH2)	See options in P0561	2 = Motor Speed		-	52
<b>P0563</b>	Trace Channel 3 (CH3)	See options in P0561	3 = Motor Current		-	52
<b>P0564</b>	Trace Channel 4 (CH4)	See options in P0561	0 = Not selected		-	52
<b>P0571</b>	Start Trace Function	0 = Off 1 = On	0 = Off		-	52
<b>P0572</b>	Trace Trig. Day/Month	00/00 to 31/12	-		RO	09, 52
<b>P0573</b>	Trace Trig. Year	00 to 99	-		RO	09, 52
<b>P0574</b>	Trace Trig. Time	00:00 to 23:59	-		RO	09, 52
<b>P0575</b>	Trace Trig. Seconds	00 to 59	-		RO	09, 52
<b>P0576</b>	Trace Function Status	0 = Off 1 = Waiting 2 = Trigger 3 = Concluded	-		RO	09, 52
<b>P0680</b>	Logical Status	0000h to FFFFh	-		RO	09, 111
<b>P0681</b>	Speed in 13 bits	-32768 to 32767	-		RO	09, 111
<b>P0682</b>	Serial/USB Control	0000h to FFFFh	-		RO	09, 111
<b>P0683</b>	Serial/USB Speed Ref.	-32768 to 32767	-		RO	09, 111
<b>P0684</b>	CANopen/DNet Control	0000h to FFFFh	-		RO	09, 111
<b>P0685</b>	CANop./DNet Speed Ref	-32768 to 32767	-		RO	09, 111
<b>P0686</b>	Anybus-CC Control	0000h to FFFFh	-		RO	09, 111
<b>P0687</b>	Anybus-CC Speed Ref.	-32768 to 32767	-		RO	09, 111
<b>P0692</b>	Operation Mode Status	0000h to FFFFh	-		RO	09, 111
<b>P0693</b>	Operation Mode Command	0000h to FFFFh	-		RO	09, 111
<b>P0695</b>	DOx Value	0000h to FFFFh	-		RO	09, 111
<b>P0696</b>	AOx Value 1	-32768 to 32767	-		RO	09, 111
<b>P0697</b>	AOx Value 2	-32768 to 32767	-		RO	09, 111
<b>P0698</b>	AOx Value 3	-32768 to 32767	-		RO	09, 111
<b>P0699</b>	AOx Value 4	-32768 to 32767	-		RO	09, 111
<b>P0700</b>	CAN Protocol	1 = CANopen 2 = DeviceNet	1 = CANopen		CFG	112
<b>P0701</b>	CAN Address	0 to 127	63		CFG	112

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0702</b>	CAN Baud Rate	0 = 1 Mbit/s 1 = Reserved 2 = 500 Kbit/s 3 = 250 Kbit/s 4 = 125 Kbit/s 5 = 100 Kbit/s 6 = 50 Kbit/s 7 = 20 Kbit/s 8 = 10 Kbit/s	0 = 1 Mbit/s		CFG	112
<b>P0703</b>	Bus Off Reset	0 = Manual 1 = Automatic	1 = Automatic		CFG	112
<b>P0705</b>	CAN Controller Status	0 = Disabled 1 = Auto-baud 2 = CAN Enabled 3 = Warning 4 = Error Passive 5 = Bus Off 6 = No Bus Power	-		RO	09, 112
<b>P0706</b>	RX CAN Telegrams	0 to 65535	-		RO	09, 112
<b>P0707</b>	TX CAN Telegrams	0 to 65535	-		RO	09, 112
<b>P0708</b>	Bus Off Counter	0 to 65535	-		RO	09, 112
<b>P0709</b>	CAN Lost Messages	0 to 65535	-		RO	09, 112
<b>P0710</b>	DNet I/O instances	0 to 7	0		-	112
<b>P0711</b>	DNet Read Word #3	-1 to 1299	-1		-	112
<b>P0712</b>	DNet Read Word #4	-1 to 1299	-1		-	112
<b>P0713</b>	DNet Read Word #5	-1 to 1299	-1		-	112
<b>P0714</b>	DNet Read Word #6	-1 to 1299	-1		-	112
<b>P0715</b>	DNet Write Word #3	-1 to 1299	-1		-	112
<b>P0716</b>	DNet Write Word #4	-1 to 1299	-1		-	112
<b>P0717</b>	DNet Write Word #5	-1 to 1299	-1		-	112
<b>P0718</b>	DNet Write Word #6	-1 to 1299	-1		-	112
<b>P0719</b>	DNet Network Status	0 = Offline 1 = OnLine,NotConn 2 = OnLine,Conn 3 = Conn.Timed-out 4 = Link Failure 5 = Auto-Baud	-		RO	09, 112
<b>P0720</b>	DNet Master Status	0 = Run 1 = Idle	-		RO	09, 112
<b>P0721</b>	CANopen Comm. Status	0 = Disabled 1 = Reserved 2 = Comm. Enabled 3 = ErrorCtrl.Enab 4 = Guarding Error 5 = HeartbeatError	-		RO	09, 112
<b>P0722</b>	CANopen Node State	0 = Disabled 1 = Initialization 2 = Stopped 3 = Operational 4 = PreOperational	-		RO	09, 112

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0723</b>	Anybus Identification	0 = Disabled 1 = RS232 2 = RS422 3 = USB 4 = Serial Server 5 = Bluetooth 6 = Zigbee 7 = Reserved 8 = Reserved 9 = Reserved 10 = RS485 11 = Reserved 12 = Reserved 13 = Reserved 14 = Reserved 15 = Reserved 16 = Profibus DP 17 = DeviceNet 18 = CANopen 19 = EtherNet/IP 20 = CC-Link 21 = Modbus-TCP 22 = Modbus-RTU 23 = Profinet IO 24 = Reserved 25 = Reserved	-		RO	09, 114
<b>P0724</b>	Anybus Comm. Status	0 = Disabled 1 = Not Supported 2 = Access Error 3 = Offline 4 = Online	-		RO	09, 114
<b>P0725</b>	Anybus Address	0 to 255	0		CFG	114
<b>P0726</b>	Anybus Baud Rate	0 to 3	0		CFG	114
<b>P0727</b>	Anybus I/O Words	2 to 8	2		CFG	114
<b>P0728</b>	Anybus Read Word #3	0 to 1299	0		CFG	114
<b>P0729</b>	Anybus Read Word #4	0 to 1299	0		CFG	114
<b>P0730</b>	Anybus Read Word #5	0 to 1299	0		CFG	114
<b>P0731</b>	Anybus Read Word #6	0 to 1299	0		CFG	114
<b>P0732</b>	Anybus Read Word #7	0 to 1299	0		CFG	114
<b>P0733</b>	Anybus Read Word #8	0 to 1299	0		CFG	114
<b>P0734</b>	Anybus Write Word #3	0 to 1299	0		CFG	114
<b>P0735</b>	Anybus Write Word #4	0 to 1299	0		CFG	114
<b>P0736</b>	Anybus Write Word #5	0 to 1299	0		CFG	114
<b>P0737</b>	Anybus Write Word #6	0 to 1299	0		CFG	114
<b>P0738</b>	Anybus Write Word #7	0 to 1299	0		CFG	114
<b>P0739</b>	Anybus Write Word #8	0 to 1299	0		CFG	114
<b>P0740</b>	Profibus Comm. Status	0 = Disabled 1 = Not Supported 2 = Access Error 3 = Offline 4 = Online	-		RO	09, 115
<b>P0800</b>	Phase U Book 1 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0801</b>	Phase V Book 1 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0802</b>	Phase W Book 1 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0803</b>	Phase U Book 2 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0804</b>	Phase V Book 2 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0805</b>	Phase W Book 2 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45

Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P0806</b>	Phase U Book 3 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0807</b>	Phase V Book 3 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0808</b>	Phase W Book 3 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0809</b>	Phase U Book 4 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0810</b>	Phase V Book 4 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0811</b>	Phase W Book 4 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0812</b>	Phase U Book 5 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0813</b>	Phase V Book 5 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0814</b>	Phase W Book 5 Temper	-20.0 to 150.0 °C	-		CFW-11M and RO	09, 45
<b>P0832</b>	DIM1 Function	0 = Not Used 1 = Extern Fault 2 = Refrig. Fault 3 = Overtemp. Brk 4 = Overtemp. Ret. 5 = High Temp. Ret	0 = Not Used		CFW-11M	45, 40
<b>P0833</b>	DIM2 Function	See options in P0832	0 = Not Used		CFW-11M	45, 40
<b>P0834</b>	DIM1 DIM2 Status	0000h to 00F8h	-		CFW-11M and RO	09, 40
<b>P1000</b>	SoftPLC Status	0 = No Application 1 = Install. App. 2 = Incompat. App. 3 = App. Stopped 4 = App. Running	0 = No Application		RO	09, 50
<b>P1001</b>	SoftPLC Command	0 = Stop Program 1 = Run Program 2 = Delete Program	0 = Stop Program		CFG	50
<b>P1002</b>	Scan Cycle Time	0 to 65535 ms	-		RO	09, 50
<b>P1010</b>	SoftPLC Parameter 1	-32768 to 32767	0		CFG	50
<b>P1011</b>	SoftPLC Parameter 2	-32768 to 32767	0		CFG	50
<b>P1012</b>	SoftPLC Parameter 3	-32768 to 32767	0		CFG	50
<b>P1013</b>	SoftPLC Parameter 4	-32768 to 32767	0		CFG	50
<b>P1014</b>	SoftPLC Parameter 5	-32768 to 32767	0		CFG	50
<b>P1015</b>	SoftPLC Parameter 6	-32768 to 32767	0		CFG	50
<b>P1016</b>	SoftPLC Parameter 7	-32768 to 32767	0		CFG	50
<b>P1017</b>	SoftPLC Parameter 8	-32768 to 32767	0		CFG	50
<b>P1018</b>	SoftPLC Parameter 9	-32768 to 32767	0		CFG	50
<b>P1019</b>	SoftPLC Parameter 10	-32768 to 32767	0		CFG	50
<b>P1020</b>	SoftPLC Parameter 11	-32768 to 32767	0		CFG	50
<b>P1021</b>	SoftPLC Parameter 12	-32768 to 32767	0		CFG	50
<b>P1022</b>	SoftPLC Parameter 13	-32768 to 32767	0		CFG	50
<b>P1023</b>	SoftPLC Parameter 14	-32768 to 32767	0		CFG	50
<b>P1024</b>	SoftPLC Parameter 15	-32768 to 32767	0		CFG	50
<b>P1025</b>	SoftPLC Parameter 16	-32768 to 32767	0		CFG	50
<b>P1026</b>	SoftPLC Parameter 17	-32768 to 32767	0		CFG	50
<b>P1027</b>	SoftPLC Parameter 18	-32768 to 32767	0		CFG	50
<b>P1028</b>	SoftPLC Parameter 19	-32768 to 32767	0		CFG	50
<b>P1029</b>	SoftPLC Parameter 20	-32768 to 32767	0		CFG	50
<b>P1030</b>	SoftPLC Parameter 21	-32768 to 32767	0		CFG	50
<b>P1031</b>	SoftPLC Parameter 22	-32768 to 32767	0		CFG	50
<b>P1032</b>	SoftPLC Parameter 23	-32768 to 32767	0		CFG	50
<b>P1033</b>	SoftPLC Parameter 24	-32768 to 32767	0		CFG	50
<b>P1034</b>	SoftPLC Parameter 25	-32768 to 32767	0		CFG	50
<b>P1035</b>	SoftPLC Parameter 26	-32768 to 32767	0		CFG	50
<b>P1036</b>	SoftPLC Parameter 27	-32768 to 32767	0		CFG	50
<b>P1037</b>	SoftPLC Parameter 28	-32768 to 32767	0		CFG	50
<b>P1038</b>	SoftPLC Parameter 29	-32768 to 32767	0		CFG	50



Parameter	Function	Adjustable Range	Factory Setting	User Setting	Proprieties	Groups
<b>P1039</b>	SoftPLC Parameter 30	-32768 to 32767	0		CFG	50
<b>P1040</b>	SoftPLC Parameter 31	-32768 to 32767	0		CFG	50
<b>P1041</b>	SoftPLC Parameter 32	-32768 to 32767	0		CFG	50
<b>P1042</b>	SoftPLC Parameter 33	-32768 to 32767	0		CFG	50
<b>P1043</b>	SoftPLC Parameter 34	-32768 to 32767	0		CFG	50
<b>P1044</b>	SoftPLC Parameter 35	-32768 to 32767	0		CFG	50
<b>P1045</b>	SoftPLC Parameter 36	-32768 to 32767	0		CFG	50
<b>P1046</b>	SoftPLC Parameter 37	-32768 to 32767	0		CFG	50
<b>P1047</b>	SoftPLC Parameter 38	-32768 to 32767	0		CFG	50
<b>P1048</b>	SoftPLC Parameter 39	-32768 to 32767	0		CFG	50
<b>P1049</b>	SoftPLC Parameter 40	-32768 to 32767	0		CFG	50

**Notes:**

RO = Read only parameter

rw = Read/write parameter

CFG = Configuration parameter, value can be programmed only with motor stopped

V/f = Available when V/f control mode is chosen

Adj = Available when adjustable V/f control mode is chosen

VVW = Available when VVW control mode is chosen

Vector = Available when a vector control mode is chosen

Sless = Available when sensorless control mode is chosen

Encoder = Available when vector control with encoder is chosen

CFW-11M = Available for Modular Drive models

