

- Extruders
- Pumps & Fans
- Printing press
- Paper machines
- Machine Tools
- Mixers
- Calenders
- Winders
- Unwinders
- Conveyors
- Rolling Mills
- Test Rigs
- Wire & Cable
- Rubber Mixers
- Textile Machinery
- Cranes and hoists and much more...



Single & Three Phase DC Drives Specification Sheet

Eurotherm- offer a wider choice of variable speed DC drives than any other manufacturer. The range has over 50 models with power ratings up to many hundreds of kilowatts. The units are remarkably compact - providing savings in cabinet size and enabling easy machine installation and wiring.

All products are available ex-stock (UK) to assist you in minimising downtime in emergency or breakdown situations. Product manuals provide step by step guidance for start-up, with examples of typical applications, to make system design and installation quick and trouble-free.

This range consists of:

Model	Descri	ption
ER-340 ER-680 ER-1220		Single Phase, 1- and 4-quadrant, fully isolated or non isolated DC motor controllers for armature currents up to 12.2A
ER-3200i ER-3600XRi		Single Phase 1- and 4-quadrant, fully isolated DC motor controller for armature currents up to 48A for 1-Quadrant or 36A for 4-Quadrant
ER-PL ER-PLX		Three phase, 2- and 4-Quadrant, fully isolated digital, DC motor controllers for armature currents up to 2250A

imagine a drive so clever, it's simple

invensus Eurotherm

Single Phase, 1- and 4-Quadrant



Models: ER-340, ER-680 and ER-1220 ER-340i, ER-680i and ER-1220i ER-340XRi, ER-680XRi and ER-1220XRi

DC motor controllers for armature currents from 3.4 Amps to 12.2 Amps

Technical Specification

1-Quadrant	
Power range: Non-isolated:	0.55-1.9 kW @ 180V dc Models ER-340, ER-680, ER-1220 Warning: These products are non-isolated and all terminals are at dangerous line potential. Ensure connected items are not earthed and have sufficient dielectric streageth to queid break down
Fully isolated:	Models ER-340i, ER-680i, ER-1220i.
4-Quadrant	
Power range: Fully isolated:	0.55-1,9kW @ 180V dc Models ER-340XRi, ER-680XRi, ER-1220XRi
Power requirements	
AC supply input:	110/240V ac and 30/60V ac (factory option) ±10%; 50-60Hz
Maximum output	
Armature voltage: Field voltage:	V dc = 0.77 x ac supply voltage (nominal) V dc = 0.9 or 0.45 x ac supply voltage (maximum 1A)

-		
Feedback:		Standard for armature voltage and analogu tachometer
Range:		0-100% dependent to the set point value
Accuracy:	Tachometer	0.1% (Speed Range 100:1)
	ARM	2% (Speed Range 20:1)
Overload		
Overload:		150% of unit nominal current for 30 second on fully isolated units
User Adjustm	ent	
Relay driver thre	eshold (Level*)	: ±0.5-100% symmetrical about zero
Maximum Spee	d (Max spd):	Corresponds to 40-200V or 10-50V ARM or
		tachometer voltage
Minimum Speed	d (Min spd):	0-30% of maximum speed
ор катр (катр	5).	1-20 seconds up ramp rate between 0 and
Down Ramp (Ra	amp*).	1-20 seconds up ramp rate between 100%
Bown Rump (Re	inp /.	and 0% speed
Stability (Stab*):		1-10 Gain of speed loop
Max Current (Im	nax):	0-100% armature current limit
IR Compensatio	on (IR comp):	0-25%
(* for fully isolat	ed units only)	
Inputs/Outpu	te	
	1.3	
Inputs/outputs:		Dependent to the model, see manual
Inputs/outputs:		Dependent to the model, see manual description
Inputs/outputs:	rols	Dependent to the model, see manual description
External Cont	rols	Dependent to the model, see manual description
External Cont Speed Setpoint External RUN:	rols	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V	rols : V)	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W):	rrols : V)	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A)
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V) Alarms	rols : V)	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A)
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W): Alarms Alarms:	rrols : V)	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V) Dissipation (W): Alarms Alarms Environment	rols : V)	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W): Alarms Alarms: Environment Storage and op	rols : V) erating	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W): Alarms Alarms: Environment Storage and op temperature:	rols : V) erating	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V) Dissipation (W): Alarms Alarms Environment Storage and op temperature: Operating atmo	rols : V) erating osphere:	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C Non-explosive, non-corrosive, defined by ICE 664
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W): Alarms Alarms: Environment Storage and op temperature: Operating atmod	rols : V) erating osphere:	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C Non-explosive, non-corrosive, defined by ICE 664 RH 5% to 85% at 40°C, non-condensing an
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (W): Alarms Alarms: Environment Storage and op temperature: Operating atmosily Humidity: Unit Protections:	rols : V) erating psphere:	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C Non-explosive, non-corrosive, defined by ICE 664 RH 5% to 85% at 40°C, non-condensing an non-streaming IP20 in accordance with ICE 364
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V) Dissipation (W): Alarms Alarms Environment Storage and op temperature: Operating atmo Humidity: Unit Protection: Thyristor Protect	rols : V) erating osphere:	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C Non-explosive, non-corrosive, defined by ICE 664 RH 5% to 85% at 40°C, non-condensing an non-streaming IP20 in accordance with ICE 364 Internal MOV RC snubber high speed fuse
Inputs/outputs: External Cont Speed Setpoint External RUN: Dissipation (V) Dissipation (W): Alarms Alarms Environment Storage and op temperature: Operating atmc Humidity: Unit Protection: Thyristor Protect	rols : V) erating osphere: tion:	Dependent to the model, see manual description From external 10K Ohms potentiometer Contact for electronic stop/start 3V x armature current (A) Stall Trip, 680 1220i fan monitoring -10°C to +50°C Non-explosive, non-corrosive, defined by ICE 664 RH 5% to 85% at 40°C, non-condensing an non-streaming IP20 in accordance with ICE 364 Internal MOV, RC snubber, high speed fuse 20A (fitted externally)







Main Terminal Listing for "i" and "XRi" versions

Term	Function
A+	Motor armature +
A-	Motor armature -
F-	Motor Field -
F+	Motor Field +
Ν	AC supply 110V/240V or 30/60V
L	AC supply 110V/240V or 30/60V
1	Reference +10V dc 10mA max,
2	'Min-In', connected through 'Min spd.' to 0V
3	Speed input to ramp, 0 to 10V
4	Output (+/-10V), *
5	COMMON, 0V
6	Input PB +/-, *
7	Input PB +, *
8	Input PB -, *
9	RUN, electronic inhibit, open to reset
10	Com. 0V
11	TACH input, negative voltage, 1.5MOhm
12	RLOP, Relay drive output, *
13	RLIP, Relay driver input,*
14	OVLD, Overload,*
15	TRIP, Latched + 10V,*
16	ROP, Ramp output 0- ±10V
17	DEM Demand output, = the total speed dem.
18	SOP speed output, 0- ±10V
19	IOP current output, 0- + 5V
20	SPD, direct speed input fast resp., 0- ± 10V
21	TRQ, torque input. 0- + 7,5V for 0-150%

* see Application manual according to the model

Coding

Model	Regen	Terminals	Supply Vac (V) Power (Armature Current (A)	
ER-340	No	Non-isolated		0.55	3.4	
ER-340i	No	Fully isolated		0.55	3.4	
ER-680	No	Non-isolated	110/240	1.1	6.8	
ER-680i	No	Fully isolated	or	1.1	6.8	
ER-1220	No	Non-isolated	30/60	1.8	12.2	
ER-1220i	No	Fully isolated		1.8	12.2	
ER-340 XRi	Yes	Fully isolated		0.55	3.4	
ER-680 XRi	Yes	Fully isolated		1.1	6.8	
ER-1220 XRi	Yes	Fully isolated		1.8	12.2	

* at 180V dc Armature voltage

Single Phase, 1- and 4-Quadrant



Models: ER-3200i and ER-3600XRi

DC motor controllers for armature currents from 4 Amps to 48 Amps

Technical Specification

1-Quadrant					
Power range:		2.2-11kW @ 320V dc ER-3200i/8, -/16, -/32, -/48			
4-Quadrant					
Power range:		1.1-9.5kW @ 320V dc ER-3600XRi/4, -/8, - /16, - /32, - /36			
Power Requir	ements				
AC Supply Inpu	ıt:	240/415V ac or 240/110V ac, 50-60Hz			
Maximum Ou	Itput				
Armature Voltage: Field voltage:		(V dc) = 0.77 x ac supply voltage (nominal) (V dc) = 0.9 or 0.45 x ac supply voltage (maximum 1A)			
Speed					
Feedback:		Standard for Armature Voltage and			
Analogue		Tachometer (select by switch)			
Range:		0-100% dependent on the set point value,			
Accuracy:	Tachometer	0.1% (Speed Range 100:1)			
	ARM	2% (Speed Range 20:1)			

Overload Overload: 150% of unit nominal current for 30 seconds Inputs/Outputs Inputs/outputs: Dependent to the model, see manual description **User Adjustment** Maximum Speed (Max spd): Corresponds to 40-200V or 10-50V ARM or tacho voltage Minimum Speed (Min spd): 0-30% of maximum speed Up Ramp (Ramp): 1-30 seconds up ramp rate between 0 and 100% speed Down Ramp (Ramp): 1-30 seconds up ramp rate between 100% and 0% speed Stability (Stab): 1-10 Gain of speed loop Max Current (Imax): 0-100% armature current limit, separate presets selects by switches IR Compensation (IR comp): 0-25% External Controls From external 10K Ohms potentiometer Speed Setpoint: External RUN: Contact for electronic STOP/START (There is a pot kit including graduated dial and knob) Dissipation Dissipation (W): 3V x Armature current (A), approx Alarms Alarms: Stall Trip Environment Storage and operating -10°C to +50°C temperature: Operating atmosphere: Non-explosive, non-corrosive, defined by ICE 664 Humidity: RH 5% to 85% at 40°C, non-condensing and non-streaming Unit Protection: IP00 in accordance with ICE 364 Thyristor Protection: Internal MOV, RC snubber, High Speed Fuse (externally fitted) CE, CSA, UL, cUL Approvals:



Eurotherm Part No. HA151197 Issue 3 November 09





Main Terminal Listing of 3200i

Term	Function
A+	Motor armature +
A-	Motor armature -
F-	Motor Field -
F+	Motor Field +
L2/N	AC supply 110V/240V or 30/60V
L	AC supply 110V/240V or 30/60V
1	Reference +10V dc 10mA max
2	'Min-In', connected through 'Min spd.' to 0V
3	Speed input to ramp, 0-10V
4	COMMON, 0V
5	COMMON, 0V
6	AUXILIARY Input, Speed or Torque
7	RUN, electronic inhibit
8	COMMON 0V
9	TACH input, 25-400V, + or -
10	RELAY contact NO*
11	RELAY contact NC*
12	RELAY COM
51	RELAY supply; -24V, 25mA
52	STALL Relay, 100mA
53	ZERO speed Relay, 100mA
54	Current OUTPUT, 0-5V
55	Setpoint ramp OUTPUT, 0-10V
56	Speed OUTPUT
57	Speed input to ramp, 0-10V
58	Drive Common
62	START/STOP
64	INPUT to current loop, 0-5V
65	Auxiliary inverted speed IO 0-10V
66	Auxiliary speed IO 0-10V
67	+24V dc 25mA

* For more details see Product Manual

Coding

Model	Regen	Terminals	Supply Vac (V)	Power (kW)*	Armature Current (A)
ER-3200i/8	No		110/240	2.2	8
ER-3200i/16	No			4.4	16
ER-3200i/32	No			7.5	32
ER-3200i/48	No	Fully isolated		11.0	48
ER-3600XRi/4	Yes		or	1.1	4
ER-3600XRi/8	Yes		415/240	2.2	8
ER-3600XRi/16	Yes			4.4	16
ER-3600XRi/32	Yes			7.5	32
ER-3600XRi/36	Yes]	-	9.5	36

* at 320V dc Armature voltage

Three Phase, 2- and 4-Quadrant



Models: ER-PL and ER-PLX

DC motor controllers for armature currents from 36 Amps to 2250 Amps

The Eurotherm Digital DC-Drive, ER-PL and ER-PLX are probably the most powerful on the market today. With an extensive range of standard software blocks, they can take control of the most demanding motion tasks. All models include a 40 character alpha- numeric back-lit display, full set of centre winding blocks including diameter control and field weakening for extended speed range applications.

Available in both 2-Quadrant and 4-Quadrant versions the range comprises 5 very compact frame sizes. UL, cUL, CE and cTick approved. Unique regenerative braking feature available on most ER-PL Models (see table) for applications using regenerative stopping (emergency stops, etc.). There is no need to use a more expensive 4-Quadrant, DC-Drive or Dynamic Braking resistors.

Technical Specification

2-Quadrant	
Power range: ER-PL	15kW-980kW @ 460V dc Armature Voltage 15kW, 20kW, 30kW, 40kW, 50kW, 65kW, 85kW, 115kW, 145kW, 185kW, 225kW, 265kW, 275kW 315kW, 360kW, 400kW, 440kW, 520kW, 600kW, 700kW, 800kW, 900kW, 980kW Power ratings >980kW are available using external Thyristor Stack and separate Stack Driver Unit, Model: ER-PLXD
4-Quadrant	
Power range: ER-PLX	15kW-Y80kW @ 460V dc 15kW, 20kW, 30kW, 40kW, 50kW, 65kW, 85kW, 115kW, 145kW, 185kW, 225kW, 275kW, 315kW, 360kW, 400kW, 440kW, 520kW, 600kW, 700kW, 800kW, 900kW, 980kW Power ratings >980kW are available using external Thyristor Stack and separate Stack Driver Unit, Model: ER-PLXD
Power Requirements	
AC Supply Input: Armature: Field:	3-Phase, 12V ac-480V ac, ±10%, 50Hz-60Hz (Standard Version) 3-Phase, 12V ac-690V ac, ±10%, 50Hz-60Hz (High Voltage Version, ER-PL(X)275 up to ER-PL980 only) 3-Phase, 100V ac-480V ac, ±10%, 50Hz-60Hz (Standard Version) 3-Phase, 100V ac-690V ac, ±10%, 50Hz-60Hz (High Voltage Version, ER-PL(X)275 up to ER-PLX980 only)
Control Supply	
Control supply:	1-Phase, 110V ac-240V ac, ± 10%, 50Hz-60Hz
Field Options	
Field options:	Fixed current, fixed voltage, field weakening, delayed quenching, standby, economy, variable Field Voltage (Vdc) = 0 to 0.9 x AC Supply Voltage Field Current 8A, 16A, 32A, 50A or 64A depending of Armature Current rating
Speed	
Feedback:	Standard for Armature Voltage, Analogue Tachometer and encoder

Range: Accuracy:	Tachometer ARM	0-100% dependent to the setpoint value, 0.1% (Speed Range 100:1) 2% (Speed Range 20:1)				
Overload Overload:		150% of unit nomir 100% for ER-PL400	al current for 25 seconds and ER-PLX400			
Standard Software Functions:	ware Functions Full suite of co Motorised po 2 x PIDs free 2 x Summers 2 x Filters Jog/Crawl/Sla Self auto-tune	entre winding blocks tentiometer with me programmable free programmable ack functions e for current loop	5 Delay timer mory Current profiling Latch Dual motor swap Linear and S-ramps Batch counter 3 drive recipe pages			
Inputs/Output 8 x analogue i	s (all short circon nputs:	uit protected) Configurable, resol ranges ±5/10/20/3	ution 5mV + sign, 4 voltage 0V, can be used as digital			
4 x analogue o	outputs:	Resolution 2.5mV + 3 configurable + de	sign, voltage range 0- ± 11V, edicated (armature current)			
17 x digital inp 7 x digital outp	outs: outs:	All configurable All configurable, m see manual descrip	ax. 32V dc 350mA tion			
External Contr Speed Setpoir External RUN:	rols nt:	From external 10K Contact for electro	Ohms potentiometer hic STOP/START			
Dissipation Dissipation (W	'):	3V x Armature curr	ent (A) (Nominal)			
Alarms (All co	nfigurable):	First fault latched a Fault automatically Short circuit protec Over temp and ove	First fault latched and automatically displayed Fault automatically saved at power off Short circuit protected Over temp and over voltage protected			
Monitorina						
Monitoring:	All digital I/O All analogue Tachogenera Motor armatu	states I/O voltages tor voltage ire current (A)	Motor field current (A) Motor armature volts (V) Output power AC supply volts			
Standards:		CE marked to EN50 EN50082-2:1995 in environment EN50082-1: 1997 in commercial and lig EN50081-2: 1993 e environment (EN55 EN50081-1: 1992 e environment (EN550	0178 (low voltage directive) nmunity industrial minity residential ht industry missions industrial 011 Class A) missions industrial 022 Class B) UL and cUL listed			
Communicatio	ons					
Other Festure	on:	Option Card: AB40	n Card: AB4005, DeviceNet, 04, Ethernet (Optional)			
Other features		Friendly easy to use English language p Extremely flexible b unique configuratio Free ER-PL Pilot co software	e menu structure with arameter names olock diagram including on checker nfiguration and monitoring			
Environment . Storage tempe Operating tem Operating atm	erature: nperature: nosphere:	-25°C to +50°C 0°C to +50°C Non-explosive, nor ICE 664	-corrosive, defined by			
Humidity:		RH 5% to 85% at 40°C, non-condensing and non-streaming 0-30%				
Max Current (I Unit Protection Thyristor Prote	max): n: ection:	0-100% armature c IP20 in accordance Internal MOV, RC s	urrent limit with ICE 364 nubber			
Protection — Protection:	High energy I Interline devia Instantaneous Field failure & Motor over-te Thyristor stac Mains supply	MOV's ce networks s over-current k over-current emperature k over-temperature phase loss	Mains synchronisation loss Armature over-volts Speed feedback failure Stall protection Standstill logic Thyristor 'trigger' failure Digital output short circuit			

Eurotherm Part No. HA151197 Issue 3 November 09



2-Quadrant Coding and Specifcation

				Regenerative		Dimensions			
Model	Armature	Power	Field	Braking	Frame	Height	Width	Depth	Weight
Number	Current	@460V dc	Current	Feature	Size	(mm)	(mm)	(mm)	(kg)
ER-PL15	36A	15kW	8A	YES	1	289	216	174	8
ER-PL20	51A	20kW	8A	YES	1	289	216	174	8
ER-PL30	72A	30kW	8A	YES	1	289	216	174	8
ER-PL40	99A	40kW	8A	YES	1	289	216	174	8
ER-PL50	123A	50kW	8A	YES	1	289	216	174	8
ER-PL65	155A	65kW	16A	NO	2	410	216	218	15
ER-PL85	205A	85kW	16A	NO	2	410	216	218	15
ER-PL115	270A	115kW	16A	NO	2	410	216	218	15
ER-PL145	330A	145kW	16A	YES	2	410	216	218	15
ER-PL185	430A	185kW	32A	NO	3	505	216	294	24
ER-PL225	530A	225kW	32A	YES	3	505	216	294	24
ER-PL265	630A	265kW	32A or 50A	NO	3	505	216	294	24
ER-PL275	650A	275kW	32A or 50A	NO	4	700	253	350	45
ER-PL315	750A	315kW	32A or 50A	NO	4	700	253	350	45
ER-PL360	850A	360kW	32A or 50A	NO	4	700	253	350	45
ER-PL400	950A	400kW	32A or 50A	YES	4	700	253	350	45
ER-PL440	1050A	440kW	32A or 50A	NO	4	700	253	350	45
ER-PL520	1250A	520kW	64A	NO	5	700	506	350	90
ER-PL600	1450A	600kW	64A	NO	5	700	506	350	90
ER-PL700	1650A	700kW	64A	YES	5	700	506	350	90
ER-PL800	1850A	800kW	64A	YES	5	700	506	350	90
ER-PL900	2050A	900kW	64A	YES	5	700	506	350	90
ER-PL980	2250A	980kW	64A	YES	5	700	506	350	90

4-Quadrant Coding and Specifcation

				Regenerative		Dimensions			
Model	Armature	Power	Field	Braking	Frame	Height	Width	Depth	Weight
Number	Current	@460V dc	Current	Feature	Size	(mm)	(mm)	(mm)	(kg)
ER-PLX15	36A	15kW	8A	YES (Full 4-Quadrant)	1	289	216	174	8
ER-PLX20	51A	20kW	8A	YES (Full 4-Quadrant)	1	289	216	174	8
ER-PLX30	72A	30kW	8A	YES (Full 4-Quadrant)	1	289	216	174	8
ER-PLX40	99A	40kW	8A	YES (Full 4-Quadrant)	1	289	216	174	8
ER-PLX50	123A	50kW	8A	YES (Full 4-Quadrant)	1	289	216	174	8
ER-PLX65	155A	65kW	16A	YES (Full 4-Quadrant)	2	410	216	218	15
ER-PLX85	205A	85kW	16A	YES (Full 4-Quadrant)	2	410	216	218	15
ER-PLX115	270A	115kW	16A	YES (Full 4-Quadrant)	2	410	216	218	15
ER-PLX145	330A	145kW	16A	YES (Full 4-Quadrant)	2	410	216	218	15
ER-PLX185	430A	185kW	32A or 50A	YES (Full 4-Quadrant)	3	505	216	294	24
ER-PLX225	530A	225kW	32A or 50A	YES (Full 4-Quadrant)	3	505	216	294	24
ER-PLX275	650A	275kW	32A or 50A	YES (Full 4-Quadrant)	4	700	253	350	45
ER-PLX315	750A	315kW	32A or 50A	YES (Full 4-Quadrant)	4	700	253	350	45
ER-PLX360	850A	360kW	32A or 50A	YES (Full 4-Quadrant)	4	700	253	350	45
ER-PLX400	950A	400kW	32A or 50A	YES (Full 4-Quadrant)	4	700	253	350	45
ER-PLX440	1050A	440kW	32A or 50A	YES (Full 4-Quadrant)	4	700	253	350	45
ER-PLX520	1250A	520kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90
ER-PLX600	1450A	600kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90
ER-PLX700	1650A	700kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90
ER-PLX800	1850A	800kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90
ER-PLX900	2050A	900kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90
ER-PLX980	2250A	980kW	64A	YES (Full 4-Quadrant)	5	700	506	350	90



Graphical Configurator and Diagnostic

Model: ER-PL PILOT

Configuration and Diagnostic Software

The ER-PL PILOT is a PC based graphical configuration and diagnostic tool for use with the range of ER-PL and ER-PLX digital DC drives. It greatly simplifies drive programming, installation and commissioning



The ER-PL PILOT is included free of charge on a CDROM with every digital drive. It makes interconnecting the drive's application blocks a simple task and allows the user to tailor the drive's

control strategy to exactly meet the demands of the process or application. It is these abilities which further strengthens Eurotherm's commitment to providing the user with cost effective and easy to use DC drive products.

This is a highly intuitive Windows based software package which requires no previous knowledge of any programming language. The package can be used in 2 operating modes:

- Off-line without a drive connected, the user can create recipes of drive parameters and block connections
- On-line with a drive connected the ER-PL PILOT can also be used to monitor and adjust the drive parameters.

The PC running the ER-PL PILOT software is connected to the drive via the PC's standard serial port. The package is designed for ease of use and provides a clear, defined and understandable method for accessing all levels of the drives extensive built in functionality

This makes complete system configurations very straightforward and quick. There are 3 levels of recipe creation and functionality available in ER-PL PILOT to suit all requirements.

They are:

- Total recipe (top level) used to manipulate the entire range of parameters.
- Bar sub-menus (2nd level) used to manipulate each main sub-set of parameters.
- Block pages (lowest level) used to manipulate parameters of individual blocks within the drive

The recipes and sections of recipes may be cut and pasted or printed out.

The Bar sub-menus (2nd level) shows the 4 main menu bars on the ER-PL PILOT entry page.

- These are:
- Diagnostics and ancillary functions
- Change parameters . Application blocks

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CHINA

• Control terminals

Each bar has buttons that allow access to a drive block page.

The Block pages (lowest level) Each block has its own page which details its default values (shown in blue text) and any altered values (shown in black text) with its own block diagram. In most cases this alleviates the need for a hard copy of the technical manual - an excellent plus point when commissioning on site!

Diagnostic and monitoring in engineering units (volts, amps, Kilowatts, rpm, Hz) and percentages for all terminals and block diagram outputs can be shown in bar graph or panel meter format.

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Model: SAVVY

Software with Graphical Function Block Programming (SFD)



Easy, intuitive, Java based, SAVVY programming tools with automated software update running under Windows, MacOS, UNIX and Linux)

The graphical Signal Flow Diagram (SFD) programming option adds powerful system design and documentation features with function blocks, user wiring, monitoring and trending including:

- Full ER-PL(X), DC-Drive configuration, operation, monitoring and diagnostic functionality
- Online or Offline design of DC-Drive configurations using intuitive tools with preengineered function blocks
- Internet access to Drives and systems for remote configuration, monitoring and process training
- Platform independent software tools run on Windows, Mac OSX, Unix, Linux, Solaris, etc.
- "Dock" feature enables users to easily select key monitoring, control and connection points to be displayed as values or trend charts
- Drive configuration importing and exporting
- Drive configuration cloning
- Drive "phantom" configuration
- Ability to annotate drawings
- Multiple page drawing organization for complex configurations of DC-Drives

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Operations Management

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