

Product overview

	ERBU	ERBM	ERBP	ERBG	ERBS
					
Design/mounting	On the drive	Control cabinet Wall	Control cabinet	Control cabinet	Wall
Degree of protection	IP20 IP65 IP66	IP20 IP23 IP54	IP20	IP20	IP66
Protection class/power range					
IP20	35 W	20 ... 150 W	-	-	-
IP23	-	86 ... 135 W	200 ... 300 W	1900 ... 34000 W	-
IP54	-	50 ... 120 W	-	-	-
IP65	20 W	-	-	-	-
IP66	15 W	-	-	-	150 ... 6300 W
Market approvals					
CE (2014/35/EU)	✓	✓	✓	✓	✓
UKCA (2016 No. 1101)	✓	✓	✓	✓	✓
UL (UL508)	✓	✓	✓	✓	✓
CSA (UL508)	✓	✓	✓	✓	✓
RoHS (2011/65/EU)	✓	✓	✓	✓	✓
Ambient conditions					
Vibration resistance during operation	Up to 0.7 g	Up to 0.7 g	Up to 0.7 g	Up to 0.7 g	Up to 0.7 g
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above +45 °C	2.5 % / °C above +45 °C	2.5 % / °C above +45 °C	2.5 % / °C above +40 °C	2.5 % / °C above +45 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)
Installation altitude	0 ... 4000 m amsl	0 ... 4000 m amsl	0 ... 4000 m amsl	0 ... 4000 m amsl	0 ... 4000 m amsl
Derating	1000 ... 4000 m amsl: Derating 5 % / 1000 m				
Mounting position	Vertical	Vertical	Vertical or horizontal (30 % current reduction)	Vertical up to 10 kW or horizontal	Vertical or horizontal (20 % current reduction)
Functions					
Housing	Metal cartridge	Aluminum profile	Aluminum profile	Steel grid	Aluminum profile
Mounting	Mounting	Side mounting	Side mounting	Side mounting	Side mounting
Connection	with cable	with cable	with cable	Bolt	Terminal box
Thermal monitoring	Intrinsically safe	Thermal contact	Thermal contact	Thermal contact	Thermal contact

Product overview

	ERZ0051		ERZ0052	
				
Design/mounting	Control cabinet		Control cabinet	
Degree of protection	IP00		IP00	
Mains connection/current range				
1 x AC 230 V	AC 0.1 ... 0.54 A	DC 205 V / 0.54 A	-	
3 x AC 400 V	-		AC 0.1 ... 0.61 A	DC 180 V / 0.61 A
Market approvals				
CE (2014/35/EU)	✓		✓	
UKCA (2016 No. 1101)	✓		✓	
UL (UL506)	✓		✓	
CSA (CSA 22.2)	✓		✓	
RoHS (2011/65/EU)	✓		✓	
RoHS (2012/ No. 3032)	✓		✓	
Ambient conditions				
Vibration resistance during operation	Up to 2 g		Up to 2 g	
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)		3K3 (-10 ... +55 °C)	
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)		1K3 (-25 ... +60 °C)	
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)		2K3 (-25 ... +70 °C)	
Degree of pollution	2		2	
Installation altitude	4000 m amsl		4000 m amsl	
Mounting position	Horizontally hanging		Horizontally hanging	
Functions				
Mounting	Control cabinet		Control cabinet	
Connection	Screw terminal		Screw terminal	



Product overview

	ELN1	EZAELN3
		
Design/mounting	Control cabinet	Control cabinet
Degree of protection	IP00	IP00
Mains connection/current range		
1 x AC 230 V	5 ... 18 A	-
3 x AC 400 V	-	1.5 ... 250 A
Market approvals		
CE (2014/35/EU)	✓	✓
UKCA (2016 No. 1101)	✓	✓
UL (UL506)	✓	✓
CSA (CSA 22.2)	✓	✓
RoHS (2011/65/EU)	✓	✓
Ambient conditions		
Vibration resistance during operation	Up to 1 g	Up to 1 g
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above +40 °C	2.5 % / °C above +40 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)
Installation altitude	0 ... 4000 m amsl	0 ... 4000 m amsl
Derating	1000 ... 4000 m amsl: Derating 5 % / 1000 m	1000 ... 4000 m amsl: Derating 5 % / 1000 m
Mounting position	horizontally hanging or standing	horizontally hanging or standing
Functions		
Mounting	Wall, base	Wall, base
Connection	Screw terminal	Screw terminal from 90 A with flat copper



Product overview

	IOFAE	E94AZ
		
Design/mounting	Control cabinet	Control cabinet
Degree of protection	IP20	IP20
Mains connection/current range		
1 x AC 230 V	6 ... 22.5 A	-
1 x AC 400 V	3.3 ... 234 A	8 ... 200 A
Market approvals		
CE (2011/65/EU)	✓	✓
UKCA (2016 No. 1101)	✓	✓
UL (UL508)	✓	✓
CSA (CSA 22.2)	✓	✓
RoHS (2011/65/EU)	✓	✓
Ambient conditions		
Vibration resistance during operation	Up to 1 g	Up to 1 g
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above +40 °C	2.5 % / °C above +40 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)
Installation altitude	0 ... 4000 m amsl	0 ... 4000 m amsl
Derating	1000 ... 4000 m amsl: Derating 5 % / 1000 m	1000 ... 4000 m amsl: Derating 5 % / 1000 m
Mounting position	Under or next to the drive	next to the drive
Functions		
Mounting	Wall, base	Wall, base
Connection	Screw terminal	Screw terminal



Product overview

	EZS3
	
Design/mounting	Control cabinet
Degree of protection	IP00 ... IP20
Connection/current range	
3 x AC 400 V	4 ... 480 A
Market approvals	
CE (2011/65/EU)	✓
UKCA (2016 No. 1101)	✓
UL (UL508)	✓
CSA (CSA 22.2)	✓
RoHS (2011/65/EU)	✓
Environmental conditions	
Vibration resistance during operation	Up to 1 g
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above +40 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)
Installation altitude	0 ... 4000 m amsl
Derating	1000 ... 4000 m amsl: Derating 5 % / 1000 m
Mounting position	Under or next to the drive
Functions	
Mounting	Wall, base
Connection	Screw terminal



Product overview

	DC fuses	Fuse holders	Busbars
			
Design/mounting	Control cabinet	Control cabinet	Control cabinet
Size/current range			
14 x 51	5 ... 50 A	2-pole	100 A
22 x 58	20 ... 100 A	2-pole	100 A
NH000	10 ... 315 A	1-pole	-
Market approvals			
CE (2011/65/EU)	✓	✓	✓
UKCA (2016 No. 1101)	✓	✓	✓
UL (UL248-13:2000)	✓	✓	-
CSA (UL/CSA/ANCE 248-1: 2011)	✓	✓	-
RoHS (2011/65/EU)	✓	✓	✓
Functions			
Mounting	Control cabinet	Control cabinet	Control cabinet



Product overview

	24 V power supply units	48 V power supply units
		
Design/mounting	Control cabinet	Control cabinet
Protection class (EN 60529)	IP20	IP20
Mains connection/current range		
24 V DC	5 ... 20 A	-
48 V DC	-	10 A
Market approvals		
CE (2011/65/EU)	✓	✓
UKCA (2016 No. 1101)	✓	✓
UL (UL508)	✓	✓
CSA (CSA 22.2)	✓	✓
RoHS (2011/65/EU)	✓	✓
Ambient conditions		
Operation (EN 60721-3-3)	3K3 (-10 ... +55 °C)	3K3 (-10 ... +55 °C)
Derating	2.5 % / °C above +40 °C	2.5 % / °C above +40 °C
Storage (EN 60721-3-1)	1K3 (-25 ... +60 °C)	1K3 (-25 ... +60 °C)
Transport (EN 60721-3-2)	2K3 (-25 ... +70 °C)	2K3 (-25 ... +70 °C)
Functions		
Mounting	Wall, base	Wall, base
Connection	Screw terminal	Screw terminal

System cables

Pre-assembled system cables are the ideal solution for easily connecting or interconnecting Lenze products. Wiring errors are thus reliably prevented.

Mains, motor, feedback, fan, and communication cables are available. Depending on the application, the cables are equipped with standard connectors, making integration into the machine's peripherals very easy.



Product overview

	Mains cables	OCT motor cables	Motor cables	Feedback cables	Blower cables	Communication cables
						
Cross-section	2.5 ... 6 mm ²	1.5 ... 6 mm ²	1 ... 16 mm ²	-	1 mm ²	-
Protection class (EN 60529)	IP65	IP69	IP69	IP69	IP66	-
Rated voltage	600 V	600 V	600 V	300 V	-	-
Bend radius Ø	5 x	7.5 x	7.5 x	7.5 x	5 x	-
Drag chain cycles	5 million	5 million	5 million	5 million	5 million	-
Market approval						
CE (2014/35/EU)	✓	✓	✓	✓	✓	✓
UKCA (2016 No. 1101)	✓	✓	✓	✓	✓	✓
Wiring Harness	✓	✓	✓	✓	✓	✓
RoHS (2011/65/EU)	✓	✓	✓	✓	✓	✓
Ambient conditions						
Operation (EN 60721-3-3)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)
Storage (EN 60721-3-1)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)
Transport (EN 60721-3-2)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)	3K3 (-30 ... +80 °C)



	Mains cables	OCT motor cables	Motor cables	Feedback cables	Blower cables	Communication cables
Functions						
Connection	Mains - drive	Drive - motor	Drive - motor	Drive - feedback	Mains - motor	Drive - fieldbus
Laying system	Fixed Drain chain	Fixed Drain chain	Fixed Drain chain	Fixed Drain chain	Fixed Drain chain	Fixed Drain chain
Connector	Han Q4/2, M15	M23, M40	M23, M40, Han Q8	Sub-D, M23	M17	Sub-D, USB or RJ45
Locking type	Plug-in lock, screw lock	Screw lock, bayonet lock	Screw lock, bayonet lock	Screw lock, bayonet lock	Screw lock, bayonet lock	Plug-in lock
Weight/m, fixed laying						
1 mm ²	-	-	0.15 kg	-	0.098 kg	-
1.5 mm ²	-	-	0.191 kg	-	-	-
2.5 mm ²	0.185 kg	-	0.26 kg	-	-	-
2.5 mm ² + 2.5 mm ²	0.250 kg	-	-	-	-	-
4 mm ²	0.298 kg	-	0.31 kg	-	-	-
4 mm ² + 2.5 mm ²	0.360 kg	-	-	-	-	-
6 mm ²	0.402 kg	-	0.428 kg	-	-	-
6 mm ² + 2.5 mm ²	0.450 kg	-	-	-	-	-
10 mm ²	-	-	0.65 kg	-	-	-
16 mm ²	-	-	0.964 kg	-	-	-
Resolver	-	-	-	0.099 kg	-	-
Encoder	-	-	-	0.134 kg	-	-
EnDat	-	-	-	0.166 kg	-	-
Digital frequency	-	-	-	-	-	0.099 kg
Weight/m, drag chain						
1 mm ²	-	-	0.157 kg	-	0.098 kg	-
1.5 mm ²	-	0.25 kg	0.193 kg	-	-	-
2.5 mm ²	0.196 kg	0.31 kg	0.269 kg	-	-	-
2.5 mm ² + 2.5 mm ²	0.248 kg	-	-	-	-	-
4 mm ²	0.238 kg	0.42 kg	0.404 kg	-	-	-
4 mm ² + 2.5 mm ²	0.317 kg	-	-	-	-	-
6 mm ²	0.432 kg	0.54 kg	0.542 kg	-	-	-
6 mm ² + 2.5 mm ²	0.413 kg	-	-	-	-	-
10 mm ²	-	-	0.85 kg	-	-	-
16 mm ²	-	-	1.032 kg	-	-	-
Resolver	-	-	-	0.104 kg	-	-
Encoder	-	-	-	0.134 kg	-	-
EnDat	-	-	-	0.178 kg	-	-
Cable diameter, fixed laying						
1 mm ²	-	-	10.3 mm	-	7.9 mm	-
1.5 mm ²	-	-	11.6 mm	-	-	-
2.5 mm ²	9 mm	-	13.2 mm	-	-	-
2.5 mm ² + 2.5 mm ²	11.7 mm	-	-	-	-	-
4 mm ²	10.6 mm	-	13.3 mm	-	-	-
4 mm ² + 2.5 mm ²	12.7 mm	-	-	-	-	-
6 mm ²	13 mm	-	15.3 mm	-	-	-
6 mm ² + 2.5 mm ²	15.7 mm	-	-	-	-	-
10 mm ²	-	-	18.2 mm	-	-	-
16 mm ²	-	-	22 mm	-	-	-
Resolver	-	-	-	9.4 mm	-	-
Encoder	-	-	-	10.7 mm	-	-
EnDat	-	-	-	12 mm	-	-
Digital frequency	-	-	-	-	-	9.4 mm
Cable diameter, drag chain						
1 mm ²	-	-	10.2 mm	-	7.7 mm	-
1.5 mm ²	-	12.7 mm	11.3 mm	-	-	-
2.5 mm ²	10 mm	13.9 mm	13.4 mm	-	-	-
2.5 mm ² + 2.5 mm ²	12.5 mm	-	-	-	-	-
4 mm ²	11.4 mm	15.9 mm	15.8 mm	-	-	-
4 mm ² + 2.5 mm ²	13.4 mm	-	-	-	-	-
6 mm ²	12.9 mm	18 mm	17.9 mm	-	-	-
6 mm ² + 2.5 mm ²	15 mm	-	-	-	-	-
10 mm ²	-	-	22 mm	-	-	-
16 mm ²	-	-	23.1 mm	-	-	-
Resolver	-	-	-	9.3 mm	-	-
Encoder	-	-	-	10.8 mm	-	-
EnDat	-	-	-	12.6 mm	-	-