

5 Ways High Integrity SPD Metal Consumer Unit Supplied with SPD, 100A Main Switch, 2 x 80A 30mA RCDs + 4 MCBs include 1 x 6A, 1 x 16A, 1 x 32A & 1 x 40A

- High integrity metal enclosure with surge protection
- 1 x 100A main switch
- 2 x 80A 30mA type A RCDs
- 4 x MCBs (1 x 6A, 1 x 16A, 1 x 32A & 1 x 40A)
- 1 x T2 20-40kA SPD
- Include tail clamp for incoming live and neutral tails



## General information

Mounting method	Surface mounted
Number of modules	12
Number of available modules	1
Number of rows	1
Barcode (EAN-13)	

## Technical information

Standard	BS EN 61439-3
Number of phases	Single phase
Rated current ( $I_{nA}$ )	[ A ] 100
Rated operational voltage ( $U_e$ )	[ V ] 230
Type of current	AC
Frequency ( $f$ )	[ Hz ] 50
Rated insulation voltage ( $U_i$ )	[ V ] 500
Rated impulse withstand voltage ( $U_{imp}$ )	[ kV ] 4
Rated short-time withstand current ( $I_{cw}$ )	[ kA ] 10
Rated conditional short-circuit current ( $I_{cc}$ )	[ kA ] 16
Overvoltage category	III
Pollution degree	2
Location type	Indoor
Altitude	[ Meter ] < 2000
Ambient air temperature for operation	
• Minimum	[ °C ] -5
• Maximum	[ °C ] +40
Ambient air temperature for storage	
• Minimum	[ °C ] -40
• Maximum	[ °C ] +75
Degree of protection (IP)	IP2XC

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Degree of protection (IK)	IK07
Enclosure material	Steel
Surface finish	Powder paint
Colour	Fresh white
RAL colour number	9016
<b>Information for incomer device</b>	
Type	Switch disconnecter
Standard	BS EN 60947-3
Product code	E-DM24
Rated current ( $I_n$ ) [A]	100
Number of poles	1P+N
Neutral position	Neutral right
<b>Information for residual current protection</b>	
Type	Residual current circuit breaker (RCCB)
Standard	BS EN 61008-1
<b>RCCB1</b>	
Product code	E-DR2124
Rated current ( $I_n$ ) [A]	80
Number of poles	2P
Neutral position	Neutral right
Wave form of residual current	Type A
Rated residual operating current ( $I_{\Delta n}$ ) [mA]	30
Residual current protection time delay	General type without time-delay
Rated conditional short-circuit current ( $I_{nc}$ ) [kA]	6
Rated conditional residual short-circuit current ( $I_{\Delta c}$ ) [kA]	6
<b>RCCB2</b>	
Product code	E-DR2124
Rated current ( $I_n$ ) [A]	80
Number of poles	2P
Neutral position	Neutral right
Wave form of residual current	Type A
Rated residual operating current ( $I_{\Delta n}$ ) [mA]	30
Residual current protection time delay	General type without time-delay
Rated conditional short-circuit current ( $I_{nc}$ ) [kA]	6
Rated conditional residual short-circuit current ( $I_{\Delta c}$ ) [kA]	6
<b>Information for overload and short-circuit protection</b>	
Type	Miniature circuit breaker (MCBs)
Standard	BS EN 60898-1
<b>Ratings</b>	1 x 6A (DBYB106, Single pole, B curve) 1 x 16A (DBYB116, Single pole, B curve) 1 x 32A (DBYB132, Single pole, B curve) 1 x 40A (DBYB140, Single pole, B curve)
Rated short-circuit breaking capacity $I_{cn}=I_{cs}$ [kA]	6
<b>Information for surge protection</b>	

# E-MH3380/SPD1

Surge protection	Yes
Standard	BS EN 61643-11
Product code	DSCY251N2R
Test class	II
Network configuration	1P+N (1+1)
Maximum continuous operating voltage ( $U_c$ )	[ V ] 275
Norminal discharge current (8/20 $\mu$ s) ( $I_n$ )	[ kA ] 20
Maximum discharge current (8/20 $\mu$ s) ( $I_{max}$ )	[ kA ] 40
Voltage protection level ( $U_p$ )	[ kV ] < 1.3 (L-N) , < 1.5 (N-PE)
Response time	[ ns ] < 25
Maximum backup fuse	[ A ] 125 gL
Integrated with remote indication contact	Yes

## Connection information

	Connection capacity [ mm <sup>2</sup> ]	Torque [ N.m ]
Terminal bar	16	1.7
Main switch	50	2.5
RCCB	35	2.5
MCB	35	2.5
SPD	16	2
Cover screws	/	2

## Package information

Package level 1		
Type		Box
Number of units in package level 1	[ pcs ]	1
Weight	[ kg ]	4.26
Length	[ cm ]	27.64
Width	[ cm ]	26.97
Height	[ cm ]	12.83
Package level 2		
Type		Pallet
Number of units in package level 2	[ pcs ]	120
Weight	[ kg ]	526.44
Length	[ cm ]	120
Width	[ cm ]	100
Height	[ cm ]	125

## Knock-outs & dimensions

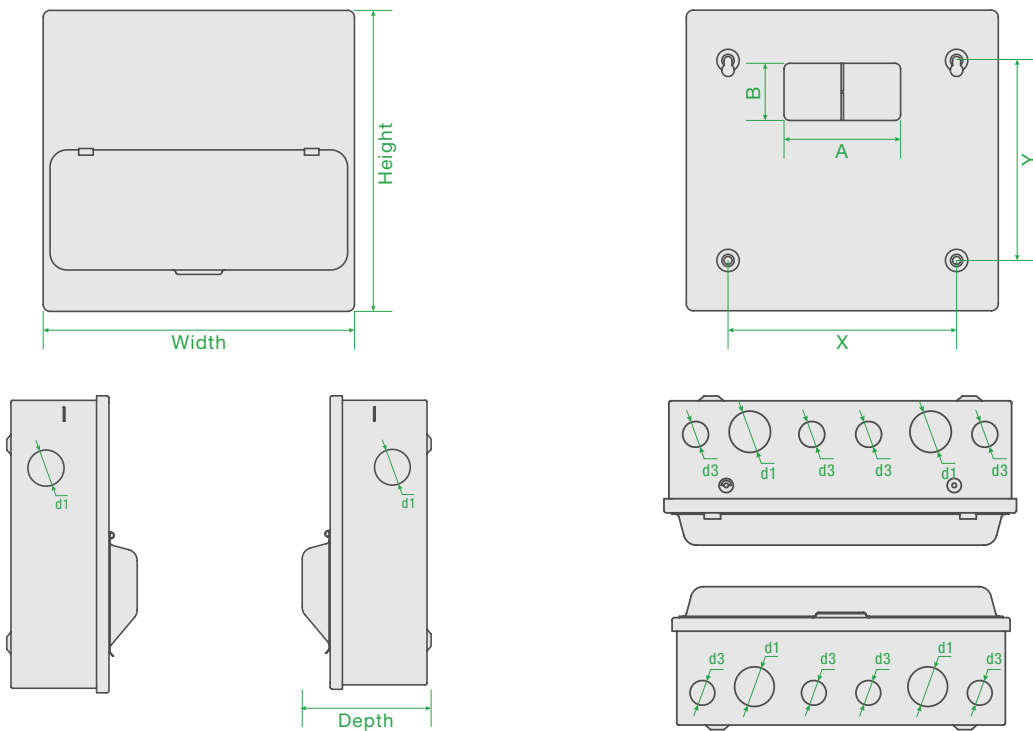
		Top face	Bottom face	Left side	Right side	Rear face
d1 = 32 mm	○	2	2	1	1	-
d2 = 25 mm	○	-	-	-	-	-

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# E-MH3380/SPD1

d3 = 20 mm		4	4	-	-	-
A = 40 mm, B = 30 mm		-	-	-	-	-
A = 104 mm, B = 52 mm		-	-	-	-	1

Width [ mm ]	Height [ mm ]	Depth [ mm ]	X hole [ mm ]	Y hole [ mm ]	Weight [ kg ]
271.4	264.7	123.2	200	175	4



## Certificate

