

# WTH-40/C/R/1P-275

Requirement class to VDE 0675	C
Requirement class to EN 61643-11	Type 2
Requirement class to IEC61643-1	Class II
Location of use:	Branch sub-distribution boards
Protection modes:	L/N-PE, L-PE, L-N
Protective element:	MOV
Surge discharge ratings:	$I_{max} = 40kA$
Housing:	Modular design

## Technical data

Type	WTH-40/C/R/1P-275	
In accordance with	IEC 61643-1	
Max. continuous operating voltage (AC/DC) $U_c$	275/350V	
Nominal discharge current (8/20) $I_n$	20kA	
Max. discharge current (8/20) $I_{max}$	40kA	
Voltage protection level $U_p$	<1.5kV	
Residual voltage at 5kA (8/20) $U_{res}$	<1.0kV	
Follow current $I_f$	NO	
Response time $t_A$	<25ns	
Thermal protection	YES	
Terminal screw torque	Max. 3.5Nm	
Back-up fuse (if mains > 100A)	80A gL	
Temperature range	-40°C ... +80°C	
Terminal cross section	35mm <sup>2</sup> (solid) / 25mm <sup>2</sup> (stranded)	
Din Rail EN60715	35mm top-hat rail	
Protection rating	IP 20	
Housing material	thermoplastic; extinguishing degree UL 94 V-0	
Dimensions DIN 43880	1TE	
Weight per unit		

Ordering code	501 366
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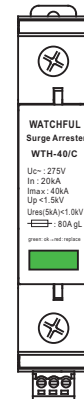
## How to name our products

Example:

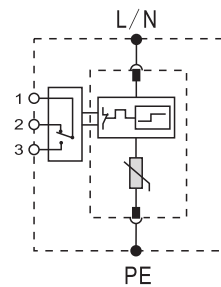


More:	$U_c(AC)$	$U_c(DC)$	$U_p$	$U_{res}(5kA)$	Ordering code
WTH-40/C/R/1P-75		100V			501 338
WTH-40/C/R/1P-115		150V			
WTH-40/C/R/1P-150		200V			501 352
WTH-40/C/R/1P-275		350V	1.5kV	1.0kV	501 366
WTH-40/C/R/1P-320		400V			501 387
WTH-40/C/R/1P-385		500V			501 408
WTH-40/C/R/1P-420		600V			501 429
WTH-40/C/R/1P-550		700V			
WTH-40/C/R/1P-690		800V			

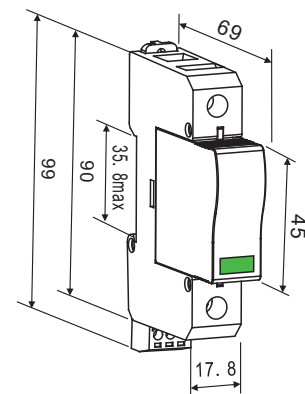
Single-pole  
Lightning & Surge Arrester  
 $I_{max} = 40kA (8/20)$



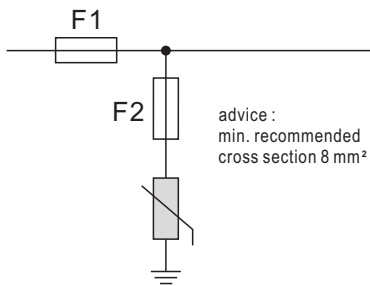
## Connection diagram



## Dimensions



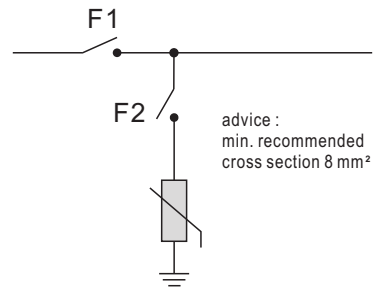
## Selection of back-up fuse



$F1 > 80A_{gL} \Rightarrow F2 = 80A_{gL}$

$F1 \leq 80A_{gL} \Rightarrow \cancel{F2}$

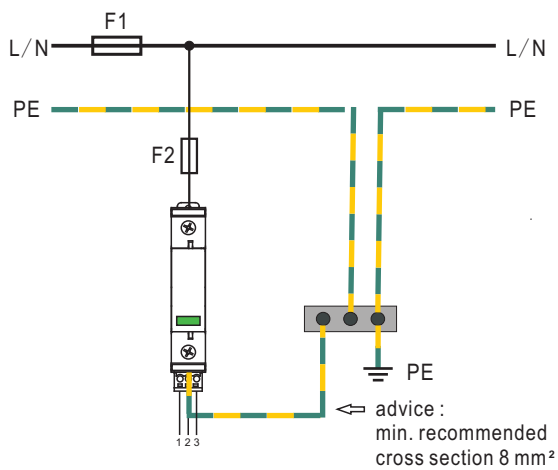
## Selection of back-up circuit-breaker



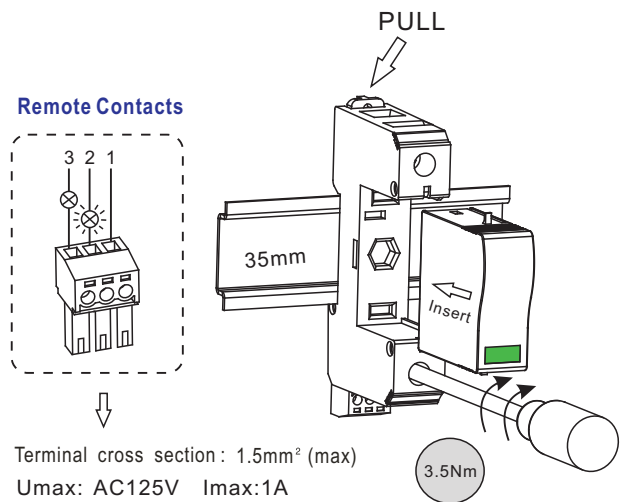
$F1 > 40A \Rightarrow F2 = 40A$

$F1 \leq 40A \Rightarrow \cancel{F2}$

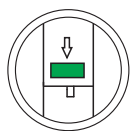
## Connections



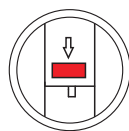
## Installation



## Fault Indication



green: OK



red: fault (replace)

replace

