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## Type 2 surge protection plug - VAL-MS 750/30-ST - 2920256

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Type 2 surge protection plug with a varistor for VAL-MS base element, thermal monitoring, visual fault warning.  
Design: 750 V AC

### Product Features

- ✓ Single-channel, DIN-rail mountable protective devices
- ✓ Disconnect device on each individual plug
- ✓ Mechanical coding of all slots
- ✓ Consists of base element and plug
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Base element with/without floating remote indication contact



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	80.0 GRM
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	52.4 mm
Width	17.5 mm
Depth	55.3 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))

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### Technical data

#### Ambient conditions

Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g
Vibration (operation)	5g

#### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
SPD design	Voltage-limiting type
Mode of protection	L-PEN
	L-PE
Mounting type	On base element
Color	black
Housing material	PA 6.6
Pollution degree	2
Distance between live and grounded parts	8 mm
Inflammability class according to UL 94	V-0
Type	Male
Number of positions	1
Surge protection fault message	Optical

#### Additional descriptions

Note	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a)
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#### Protective circuit

Nominal voltage $U_N$	554/960 V AC (TN)
	690 V AC (IT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	760 V AC
Residual current $I_{PE}$	$\leq 0.5$ mA
Standby power consumption $P_C$	$\leq 400$ mVA
Nominal discharge current $I_n$ (8/20) $\mu$ s	15 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	30 kA

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### Technical data

#### Protective circuit

Short-circuit current rating $I_{SCCR}$	25 kA
Voltage protection level $U_p$	$\leq 2.9$ kV
Residual voltage $U_{res}$	$\leq 2.9$ kV (at $I_n$ )
	$\leq 2.7$ kV (at 10 kA)
	$\leq 2.5$ kV (at 5 kA)
	$\leq 2.3$ kV (at 3 kA)
TOV behavior at $U_T$	1000 V AC (5 s / withstand mode)
Response time $t_A$	$\leq 25$ ns
Max. backup fuse with branch wiring	100 A AC (gG)

#### Connection data

Connection method	VALVETRAB plug-in system
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#### UL specifications

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (L-N)	750 V AC
Nom. voltage	690 V AC
Mode of protection	L-G
Power distribution system	1
Nominal frequency	50/60 Hz
Voltage protection rating VPR (L-N)	2.5 kV
Nominal discharge current $I_n$ (L-N)	10 kA

### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

#### ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941

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## Classifications

### ETIM

ETIM 5.0	EC000941
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### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

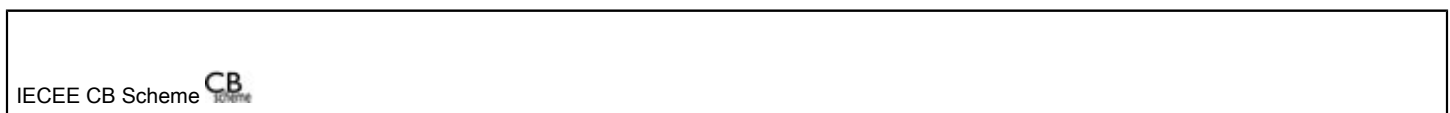
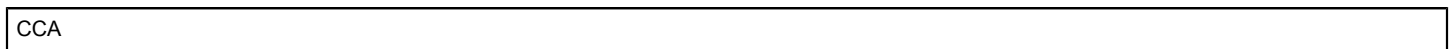
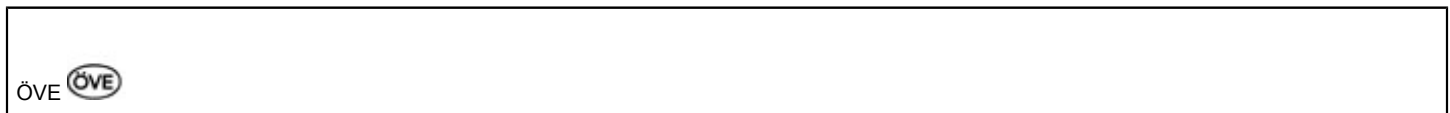
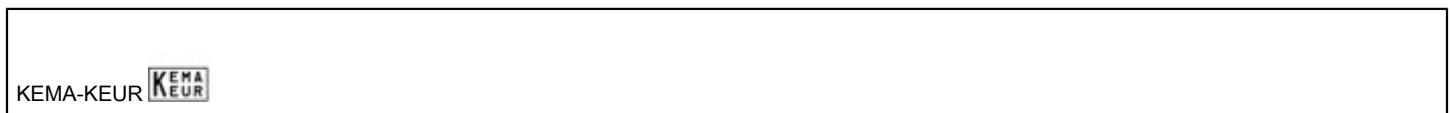
#### Approvals

KEMA-KEUR / ÖVE / CCA / IECCEB Scheme / UL Recognized / cUL Recognized / GOST / GL / KEMA-KEUR / ÖVE / CCA / IECCEB Scheme / cULus Recognized

#### Ex Approvals

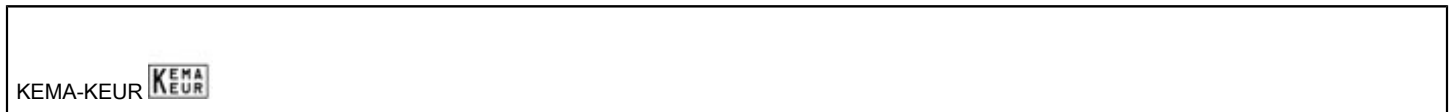
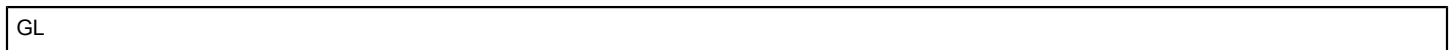
#### Approvals submitted

### Approval details



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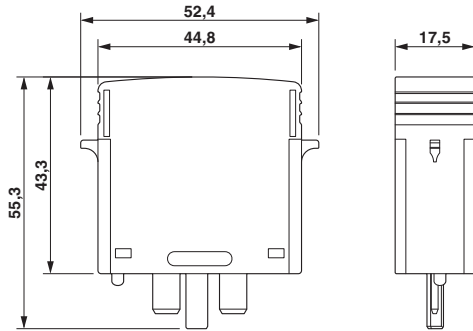
### Approvals



### Drawings

## Type 2 surge protection plug - VAL-MS 750/30-ST - 2920256

Dimensioned drawing



Circuit diagram

