

stay connected

## **MEF EMC-FILTER 3-PHASE 1-STAGE**

I:8A U:3x600 VAC book-style

Current: 8 A 1-stage

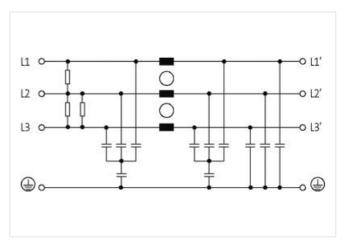
Attenuation curves on request.

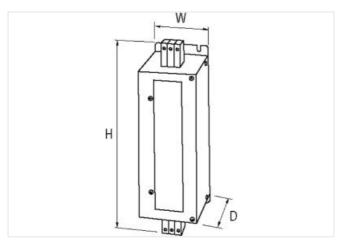
The MEF 3/1-3/2 3-phase and 1-/2-stage mains suppression filters are used in the 0.1...30 MHz range to suppress conducted interference on mains and supply lines. They are suitable for TN-C networks. The best filter effect is achieved with short connecting lines (recommendation: PE connection < 10 cm) with the largest possible cross sections. Line suppression filters act bidirectionally (in both directions). They reduce symmetrical and asymmetrical interference, which often occurs with frequency converters and switched-mode power supplies.

## **Link to Product**

## Illustration







Product may differ from Image







ECLASS-6.0	27130806
ECLASS-6.1	27420201



stay connected

ECLASS 8.0         2740200           ECLASS 1.0         2740200           ECLASS 1.1         27402008           ECLASS 1.2.0         27402008           ECLASS 1.2.0         27402008           ETIM-S.0         ECOCA498           customs facil number         8598010           GTIN         4048879029254           Packaging unit         1           Lekage current max.         10 mA @ 250 V AC, 50 Hz           Electrical data         Electrical data [suppty           Power Incapancy         5 0 - 60 Hz           Clearling voilage AC max.         600 V           Electrical data [pout           Power Incapancy         3 - 60 Hz           Electrical data [niput           Plansa number input         3           Electrical data [niput           Power forequency         10 mX (%) 1 max. 0.5 ms; 1.5× (N1) max. 1 min. (1× per hour)           Installation         10 mx           Connection cores-section solid min.         0.2 mm²           Connection cores-section solid min.         0.2 mm²           Connection cores-section stranded min.         24           AWG number stranded min.         24           AWG number stranded min.         24           AWG number stranded m		
ECLASS 9.0         27420308           ECLASS 1-0.1         27420308           ECLASS 1-1.2         27420308           ECLASS 1-1.0         27420308           ECLASS 1-2.0         27420088           ECHASS 1-2.0         ECO02498           customs suff number         8580810           GTIN         4048879029254           Packaging unit         1           Electrical data         1           Leakago curret max.         10 mA@ 250 V AC, 50 Hz           Electrical data Suppy         February 100 Peratricy variages AC max.           Power fragancy         50 - 60 Hz           Power fragancy         50 - 60 Hz           Electrical data [Injut         February 100 Peratricy variages AC max.           Place fraid data [Injut         February 100 Peratricy variages AC max.           Ownerlad current         18 * (N1) max. 0.5 ms: 1.5 * (N1) max. 1 min. (1* per hour)           Installation         Oxneréan durant           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid min.         10 mm²           Connection cross-section solid min.         10 mm²           Connection cross-section solid min.         2.2 mm²           Connection cross-section solid min.         1.2 mm²      <	ECLASS-7.0	27420290
ECLASS 1.01         27420208           ECLASS 1.1         27420208           ECLASS 1.2.0         27420208           ETIM 5.0         ECOX2498           LETIM 5.0         ECX 5000498           Leasing funder         85383010           GTIN         404879229254           Packaging int         1           Electrical data         Laskage current max.           Electrical data [Supply         Feberical data [Supply           Power frequency         5060 Hz           Operating voltage AC max.         600 V           Electrical data [Output         Feberical data [Output           Voverload current         18-(N1) max. 0.5 ms; 1.5- (NI) max. 1 min. (1+ per hour)           Installation         United accordance acco		
ECLASS.11.1         27400008           ECLASS.12.0         27400008           ETIM.4.0         ECON02498           customs call number         8553010           GTIN         404878028254           Packaging unit         1           Electrical data         Lucasage current max.           Electrical data   Supply         February           Power fequency         50 80 Hz           Ceretaring vating AC max.         600 V           Electrical data   Input         February           Phase number impot         3           Electrical data   Onture         18* (N I) max .0.5 ms; 1.5* (N I) max.1 min. (1* per hour)           Installation         Connection cross-section solid min.           Connection cross-section solid min.         0.2 mm²           Connection cross-section stranded/fine-st		
ECLASS-12.0         27420208           ETIM 5.0         ECD02498           CTIM         4048378029544           Packaging unit         1           Electrical data           Loakago current max.         10 mA @ 250 V AC, 50 Hz           Electrical data   Supply           Power frequency         5060 Hz           Ceperating voltage AC max.         600 V           Electrical data   Output           Consection data   Toutput           Consection data   Output           Consection cross-section solid min.         0.2 mm²           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid min.         0.2 mm²           Connection cross-section strandod/fine-strandor min.         0.2 mm²           Connection cross-section strandod/fine-strandor min.         0.2 mm²           Connection cross-section strandod/fine-strandor min.         0.2 mm²           Connection cross-section strandod min.         0.2 mm²           Connection strandod/fine-strandor mix.         0.2 mm²           Connection strandod/fine-strandor mix.         0.2 mm²           Connection strandod/fine-strandor mix		
ETIMAS 0         ECIDI2488           cuations sariff number         8585010           OTIN         404887022254           Packaging unit         1           Electrical data         1           Leakage current max.         10 mA @ 250 V AC, 50 Hz           Electrical data   Supply         50 60 Hz           Operating voltage AC max.         600 V           Electrical data   Input         1           Phase number input         3           Electrical data   Output         1           Overload current         18 x (N 1) max .0.5 ms; 1.5x (N 1) max .1 min, (1x per hour)           Installation         2 mm²           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid max.         10 mm²           Connection cross-section shandedfine- stranded min.         2.4 mm²           AWG number standedfine- stranded min.         2.4           AWG number standedfine- stranded min.         2.4           AWG number standedfine- stranded min.         2.4           AWG number standed mine- tranded min.         2.4           AWG number standed mine- tranded mine- tranded mine- tranded mine- tranded mine- tranded mine- stranded mine- part standed mine- tranded mine- stranded mine- part standed mine- tranded mine- stranded mine- stranded mine- stranded mine- stranded mine- stranded		
customs tariff number         6585010           GTIN         4048879028254           Peakaging umit         1           Electrical data         1           Leakage current max.         10 mA @ 250 V AC, 50 Hz           Electrical data I Supply         50 60 Hz           Operating voltage AC max.         600 V           Electrical data I Jouput         50 60 Hz           Phase number input         3           Electrical data I Output         50 60 Ng		
CTIN         4048879029254           Packaging unit         1           Electrical data         Leakage current max.         10 mA @ 250 V AC, 50 Hz           Electrical data   Supply         Formula (and proper compose)         50 60 Hz           Operating voltage AC max.         600 V           Electrical data   Input         7           Phase number input         8         (M1) max. 0.5 ms; 1.5x (M1) max. 1 min. (1x per hour)           Electrical data   Output         Use max of the compose control of the comp		
Packaging unit         1           Electrical data           Leakage current max.         10 mA @ 250 V AC, 50 Hz           Electrical fais is Supply         50 60 Hz           Operating voltage AC max.         600 V           Electrical data Imput         The company of the property of the		
Peter   Pete		
Darkage current max.   10 mA @ 250 V AC, 50 Hz		1
Electrical data   Supply         50 60 Hz           Operating voltage AC max.         60 No V           Electrical data Input         Feature Programment of the programment		
Power frequency         50 60 Hz           Operating voltage AC max.         600 V           Electrical data   Injut           Phase number input         3           Electrical data   Output           Overload current         18x (INt) max. 0.5 ms; 1.5x (INt) max. 1 min. (1x per hour)           Installation         Connection cross-section solid min.         0.2 mm²           Connection cross-section solid max.         10 mm²           Connection cross-section stranded/filine-stranded min.         0.2 mm²           Connection cross-section stranded/filine-stranded min.         4           AWG number solid min.         24           AWG number solid min.         24           AWG number stranded/filine-stranded min.         24           AWG number stranded/filine-stranded min.         24           AWG number stranded/filine-stranded min.         24           Device protection   Electrical         2           Unation insulation test voltage L-L         3.1 kV           Insulation test voltage L-L         3.1 kV           Insulation test voltage L-L         3.5 kW           Mounting method         5 crowed           Height         25 mm           Width         90 mm           Depth         10 mm²           C	Leakage current max.	10 mA @ 250 V AC, 50 Hz
Operating voitage AC max.         600 V           Electrical data   Input           Phase number input         3           Electrical data   Output           Overload current         18x (IN 1) max. 0.5 ms; 1.5x (IN 1) max. 1 min. (1x per hour)           Installation         0.2 mm²           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid min.         0.2 mm²           Connection cross-section strandedfine-stranded min.         0.2 mm²           Connection cross-section strandedfine-stranded min.         6 mm²           AWG number strandedfine-stranded min.         24           AWG number solid min.         24           AWG number strandedfine stranded min.         24           AWG number strandedfine stranded max.         9           Device protection [Electrical stranded max.         2           Device protection [Electrical stranded max.         3 x V           Device protection [Electrical stranded min.         2.5           Insulation test voltage L. I.         3.1 kV           Insulation test voltage L. I.         3.1 kV           Insulation test voltage L. I.         3.1 kV           Mechanical data [Mounting data         4           Width         90 mm           Depth         100 mm	Electrical data   Supply	
Electrical data   Input         Phase number input         3           Electrical data   Output           Overload current         18x (N1) max. 0.5 ms; 1.5x (IN1) max. 1 min. (1x per hour)           Installation         Connection cross-section solid min.         0.2 mm²           Connection cross-section sloid max.         10 mm²           Connection cross-section sloid max.         0.2 mm²           Connection cross-section stranded-fline-stranded dine-stranded min.         0.2 mm²           Connection cross-section stranded-fline-stranded fline-stranded min.         6 mm²           Connection cross-section stranded-fline-stranded fline-stranded fline-str	Power frequency	50 60 Hz
Phase number input         3           Electrical data   Output           Overload current         18× (IN 1) max. 0.5 ms; 1.5× (IN 1) max. 1 min. (1× per hour)           Installation           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid max.         10 mm²           Connection cross-section stranded/fine-stranded min.         0.2 mm²           Connection cross-section stranded/fine-stranded max.         6 mm²           AWG number solid max.         7           AWG number solid min.         24           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical         2           Duration insulation lest voltage L-L.         3.1 kV           Insulation lest voltage L-L.         3.3 kV           Mechanical data   Mounting data         screwed           Muniting method         screwed           Leight         25 0mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic category (EN IEC 6008e-1)         25 08521           Connection         Screw terminals SK           Family construction form         terminale           Co	Operating voltage AC max.	600 V
Electrical data   Output         18x (IN t) max. 0.5 ms; 1.5x (IN t) max. 1 min. (1x per hour)           Overload current         18x (IN t) max. 0.5 ms; 1.5x (IN t) max. 1 min. (1x per hour)           Installation         Output           Connection cross-section solid max.         10 mm²           Connection cross-section stranded/fine-stranded min.         0.2 mm²           Connection cross-section stranded/fine-stranded min.         6 mm²           AWG number solid max.         7           AWG number solid max.         7           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical         1           Duration insulation test voltage L-1         3,1 kV           Insulation test voltage L-1         3,1 kV           Insulation test voltage L-1         3,3 kV           Mechanical data   Mounting data         Mounting method           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Cimatic category (EN IEC 6008-1)         25085/21           Connection         Screw terminals SK           Family construction for	Electrical data   Input	
Overload current         18x (IN1) max. 0.5 ms; 1.5x (IN1) max. 1 min. (1x per hour)           Installation           Connection cross-section solid min.         0.2 mm²           Connection cross-section solid max.         10 mm²           Connection cross-section stranded/fine-stranded/fine-stranded min.         0.2 mm²           Connection cross-section stranded/fine-stranded min.         4           AWG number solid max.         7           AWG number solid max.         7           AWG number solid max.         9           Device protection   Electrical         9           Duration insulation test voltage L-L         3,1 kV           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data         Screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic         Climatic category (EN IEC 6008-1)         25085/21           Connection type 2         Connection form         Erminal           Color contact carrier         gray           No. of poles         3           PIN 2         L. 1           PIN 2         L. 2	Phase number input	3
Installation         0,2 mm²           Connection cross-section solid min.         0,2 mm²           Connection cross-section stranded fine-stranded fine-stranded min.         0,2 mm²           Connection cross-section stranded/fine-stranded fine-stranded min.         6 mm³           AWG number solid min.         24           AWG number stranded fine stranded min.         24           AWG number stranded/fine stranded min.         9           Device protection   Electrical         9           Duration insulation test voltage   L-1         3,1 kV           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Cimatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           FIN 1         L1           Fin 3	Electrical data   Output	
Connection cross-section solid min. 0,2 mm²  Connection cross-section stranded/fine-stranded/fine-stranded fine-stranded fine-st	Overload current	18× (IN t) max. 0.5 ms; 1.5× (IN t) max. 1 min. (1× per hour)
Connection cross-section solid max.         10 mm²           Connection cross-section stranded/fine-stranded min.         0,2 mm²           Connection cross-section stranded/fine-stranded min.         24           AWG number solid min.         24           AWG number stranded/fine-stranded max.         9           Device protection   Electrical            Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data            Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic         Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2         Connection form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L1	Installation	
Connection cross-section solid max.         10 mm²           Connection cross-section stranded/fine-stranded min.         0,2 mm²           Connection cross-section stranded/fine-stranded min.         24           AWG number solid min.         24           AWG number stranded/fine-stranded max.         9           Device protection   Electrical            Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data            Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic         Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2         Connection form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L1	Connection cross-section solid min	0.2 mm <sup>2</sup>
Connection cross-section stranded/fine-stranded min.         0.2 mm²           Connection cross-section stranded/fine-stranded max.         6 mm²           AWG number solid min.         24           AWG number stranded/fine-stranded min.         24           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical           Duration insulation test voltage L-L         3.1 kV           Insulation test voltage L-L         3.3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection type 2         connection   female           Connection form         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		· · · · · · · · · · · · · · · · · · ·
Connection cross-section stranded/fine-stranded max.         6 mm²           AWG number solid min.         24           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical           Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2         Connection type 2           Connection form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PiN 1         L 1           PiN 2         L 2           PiN 3         L 3	Connection cross-section stranded/fine-	
AWG number solid min.         24           AWG number solid max.         7           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical            Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data            Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2            Connection form         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Connection cross-section stranded/fine-	6 mm²
AWG number solid max.         7           AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical           Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection type 2         Connection type 2           Connection (Screw terminals SK         Family construction form           Earnily construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		24
AWG number stranded/fine stranded min.         24           AWG number stranded/fine stranded max.         9           Device protection   Electrical		
Device protection   Electrical		24
Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	AWG number stranded/fine stranded max.	9
Duration insulation test voltage         2 s           Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Device protection   Electrical	
Insulation test voltage L-L         3,1 kV           Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data         Mounting method           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection softruction form         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		20
Insulation test voltage L-N         3,3 kV           Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2         Connection           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Mechanical data   Mounting data           Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		· · · · · · · · · · · · · · · · · · ·
Mounting method         screwed           Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		0,0 114
Height         250 mm           Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Width         90 mm           Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Depth         100 mm           Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Environmental characteristics   Climatic           Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Climatic category (EN IEC 60068-1)         25/085/21           Connection type 2         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		100 mm
Connection type 2           Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3		
Connection         Screw terminals SK           Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Climatic category (EN IEC 60068-1)	25/085/21
Family construction form         terminal           Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Connection type 2	
Gender         female           Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Connection	Screw terminals SK
Color contact carrier         gray           No. of poles         3           PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Family construction form	terminal
No. of poles       3         PIN 1       L 1         PIN 2       L 2         PIN 3       L 3	Gender	female
PIN 1         L 1           PIN 2         L 2           PIN 3         L 3	Color contact carrier	gray
PIN 2         L 2           PIN 3         L 3	No. of poles	
PIN 3 L 3	PIN 1	
	PIN 2	
Connection Screw terminals SK		
	Connection	Screw terminals SK



Family construction form	terminal	
Gender	female	
Color contact carrier	gray	
No. of poles	3	
PIN 1	L1'	
PIN 2	L 2'	
PIN 3	L 3'	