

Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-BASE Series

513.



BASE - Screw terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h				
2P+E	50Hz 60Hz	100-130V		4h	513.1650	10/40		513.3250 10
		200-250V			513.1653	10/40		513.3253 10
3P+E		380-415V		6h			513.1656 10/40	513.3256 10
3P+N+E		346-415V					513.1657 10/40	513.3257 10

- Open threaded cable entry
- Threaded cap/cable sleeve included



Terminals
Screw terminals

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



TOP - Screw terminals

SURFACE MOUNTING SOCKET

IP44

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h				
2P+E	50Hz 60Hz	100-130V		4h	513.1650T	10/40	513.3250T	10
		200-250V		6h	513.1653T	10/40	513.3253T	10
		380-415V		9h	513.1658T	10/40	513.3258T	10
		480-500V		7h	513.16536T	10/40	513.32536T	10
		TST>50V		12h	513.16533T	10/40	513.32533T	10
	DC	>300-500Hz		2h	513.16532T	10/40	513.32532T	10
		>50-250V		3h	513.16534T	10/40	513.32534T	10
		>250V		8h	513.16538T	10/40	513.32538T	10
3P+E	50Hz 60Hz	100-130V		4h		513.1651T 10/40	513.3251T	10
		200-250V		9h		513.1654T 10/40	513.3254T	10
		380-415V		6h		513.1656T 10/40	513.3256T	10
		380V 50Hz / 440V 60Hz		3h		513.16564T 10/40	513.32564T	10
		480-500V		7h		513.16566T 10/40	513.32566T	10
	60Hz	600-690V		5h		513.16567T 10/40	513.32567T	10
		440-460V		11h		513.16565T 10/40	513.32565T	10
		>300-500Hz		2h		513.16562T 10/40	513.32562T	10
3P+N+E	50Hz 60Hz	100-130V		4h		513.1652T 10/40	513.3252T	10
		208-250V		9h		513.1655T 10/40	513.3255T	10
		346-415V		6h		513.1657T 10/40	513.3257T	10
		380V 50Hz / 440V 60Hz		3h		513.16574T 10/40	513.32574T	10
		480-500V		7h		513.16576T 10/40	513.32576T	10
	60Hz	600-690V		5h		513.16577T 10/40	513.32577T	10
		440-460V		11h		513.16575T 10/40	513.32575T	10
		>300-500Hz		2h		513.16572T 10/40	513.32572T	10

- Threaded break-through knock out
- Rubber threaded cable sleeve included

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Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



 **TOP - Spring terminals**

SURFACE MOUNTING SOCKET

IP44/IP54

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	513.1650TF	10/40	513.3250TF	10
		200-250V		6h	513.1653TF	10/40	513.3253TF	10
		380-415V		9h	513.1658TF	10/40	513.3258TF	10
200-250V			6h		513.1654TF	10/40	513.3254TF	10
380-415V					513.1656TF	10/40	513.3256TF	10
346-415V				513.1657TF	10/40	513.3257TF	10	
3P+N+E								

- Threaded break-through knock out
- Rubber threaded cable sleeve included



Terminals
Spring terminals (FAST WIRING)



Terminals
Mantle terminals (EASY-PLUG)

■ OPTIMA Series >> Surface mounting socket outlets

					OPTIMA-TOP Series	
					513.	
					TOP - Mantle terminals	
					SURFACE MOUNTING SOCKET	
					IP44	
					M40X1,5	
					63A	
2P+E	50Hz 60Hz	100-130V		4h	513.6350T	4
		200-250V		6h	513.6353T	4
		380-415V		9h	513.6358T	4
		480-500V		7h	513.63536T	
		TST>50V		12h	513.63533T	
	>300-500Hz	>50V		2h	513.63532T	
		>50-250V		3h	513.63534T	
	DC	>250V		8h	513.63538T	
3P+E	50Hz 60Hz	100-130V		4h	513.6351T	4
		200-250V		9h	513.6354T	4
		380-415V		6h	513.6356T	4
		380V 50Hz / 440V 60Hz		3h	513.63564T	
		480-500V		7h	513.63566T	
	60Hz	600-690V		5h	513.63567T	
		440-460V		11h	513.63565T	
	100-300Hz			10h	513.63561T	
	>300-500Hz	>50V		2h	513.63562T	
3P+N+E	50Hz 60Hz	100-130V		4h	513.6352T	4
		208-250V		9h	513.6355T	4
		346-415V		6h	513.6357T	4
		380V 50Hz / 440V 60Hz		3h	513.63574T	
		480-500V		7h	513.63576T	
	60Hz	600-690V		5h	513.63577T	
		440-460V		11h	513.63575T	
	>300-500Hz	>50V		2h	513.63572T	

- Open threaded cable entry
- Cable gland included



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



TOP - Screw terminals [SAFE-IN]

SURFACE MOUNTING SOCKET

IP44/IP54

M20X1,5

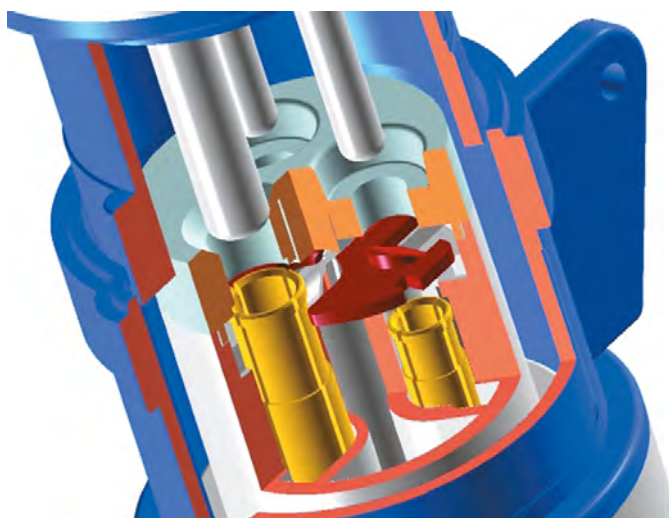
M25X1,5

16A

Poles	Hz	Volt	Colour	h			
2P+E	50Hz 60Hz	100-130V		4h	513.1650TH	10/40	
		200-250V		6h	513.1653TH	10/40	
		380-415V		9h	513.1658TH	10/40	
3P+E		200-250V					513.1654TH 10/40
		380-415V					513.1656TH 10/40
3P+N+E		346-415V		6h			513.1657TH 10/40

Sockets with "SAFE-IN" safety device

- Threaded break-through knock out
- Rubber threaded cable sleeve included



SAFE-IN

Connector tube protective shutter for increased safety against direct contacts. (The SAFE-IN safety device).



Terminals
Screw terminals



FRENCH STANDARD 16A
Shuttered socket



FRENCH-GERMAN STANDARD 16A
Shuttered socket



ITALIAN STANDARD P30 - 16A
Shuttered socket CEI 23-50



PLURISTANDARD P40 16A
Shuttered socket



BRITISH STANDARD 13A
Shuttered socket BS 1363-2



ARGENTINIAN STANDARD 10A
Unshuttered socket



BRAZILIAN STANDARD 10A
Unshuttered socket ABNT NBR 14136:2002

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.



COMBI - Screw terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	16A	32A
2P+E	200-250V			6h	FRENCH	513.1653-FN	513.3253-FF ¹
					GERMAN	513.1653-DN	513.3253-DF ¹
					ITALIAN P30	513.1653-PN	513.3253-PF ¹
					ITALIAN P40	513.1653-LN	513.3253-LF ¹
					BRITISH BS1363	513.1653-BN ¹	513.3253-BF ¹
					ARGENTINE	513.1653-AF ¹	513.3253-AF ¹
					BRAZILIAN	513.1653-CF ¹	513.3253-CF ¹
					DANISH	513.1653-KN	513.3253-KF ¹
					FRENCH	513.1656-FN	513.3256-FF ¹
					GERMAN	513.1656-DN	513.3256-DF ¹
3P+E	50Hz 60Hz	380-415V		6h	ITALIAN P30	513.1656-PN	513.3256-PF ¹
					ITALIAN P40	513.1656-LN	513.3256-LF ¹
					BRITISH BS1363	513.1656-BN ¹	513.3256-BF ¹
					ARGENTINE	513.1656-AF ¹	513.3256-AF ¹
					BRAZILIAN	513.1656-CF ¹	513.3256-CF ¹
					DANISH	513.1656-KN	513.3256-KF ¹
					FRENCH	513.1657-FN	513.3257-FF ¹
					GERMAN	513.1657-DN	513.3257-DF ¹
					ITALIAN P30	513.1657-PN	513.3257-PF ¹
					ITALIAN P40	513.1657-LN	513.3257-LF ¹
3P+N+E	346-415V			6h	BRITISH BS1363	513.1657-BN ¹	513.3257-BF ¹
					ARGENTINE	513.1657-AF ¹	513.3257-AF ¹
					BRAZILIAN	513.1657-CF ¹	513.3257-CF ¹
					DANISH	513.1657-KN	513.3257-KF ¹
					FRENCH	513.1657-FN	513.3257-FF ¹
					GERMAN	513.1657-DN	513.3257-DF ¹

¹ Household socket protected by 10A fuse [time-delay] (included)

- Open threaded cable entry
- Rubber threaded cable sleeve included
- COMBI version: combining industrial and household sockets



DANISH STANDARD
Shuttered socket

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Connectors and sockets for industrial applications

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■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

512.



Screw terminals
[Angled box]

SURFACE MOUNTING SOCKET

IP44/IP54

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h				
2P+E		100-130V		4h	512.1650	10/50		512.3250 10/40
		200-250V		6h	512.1653	10/50		512.3253 10/40
		380-415V		9h	512.1658	10/50		512.3258 10/40
3P+E	50Hz 60Hz	100-130V		4h			512.1651 10/50	512.3251 10/40
		200-250V		9h			512.1654 10/50	512.3254 10/40
		380-415V		6h			512.1656 10/50	512.3256 10/40
3P+N+E		100-130V		4h			512.1652 10/50	512.3252 10/40
		208-250V		9h			512.1655 10/50	512.3255 10/40
		346-415V		6h			512.1657 10/50	512.3257 10/40

- Open threaded cable entry
- Threaded cap/cable sleeve included



Terminals
Screw terminals

OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

522.



 Screw terminals
[Straight box]

SURFACE MOUNTING SOCKET

IP44/IP54

DRILLING POINT MARK

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	522.1650	10/50	522.3250	10/40
		200-250V		6h	522.1653	10/50	522.3253	10/40
		380-415V		9h	522.1658	10/50	522.3258	10/40
3P+E		100-130V		4h	522.1651	10/50	522.3251	10/40
		200-250V		9h	522.1654	10/50	522.3254	10/40
		380-415V		6h	522.1656	10/50	522.3256	10/40
3P+N+E		100-130V		4h	522.1652	10/50	522.3252	10/40
		208-250V		9h	522.1655	10/50	522.3255	10/40
		346-415V		6h	522.1657	10/50	522.3257	10/40

- Blank side with drilling point mark
- Rubber cable sleeve included

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