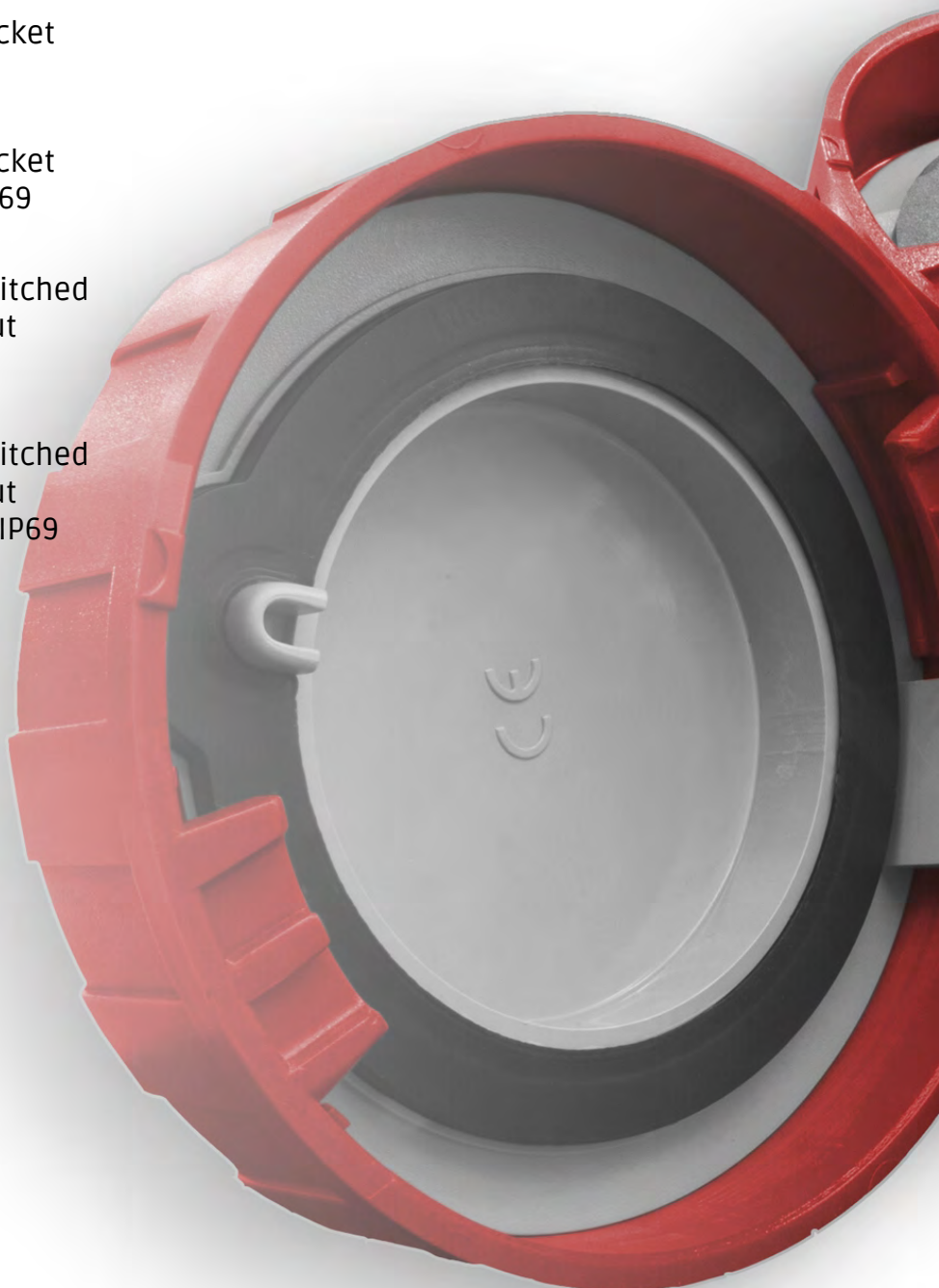
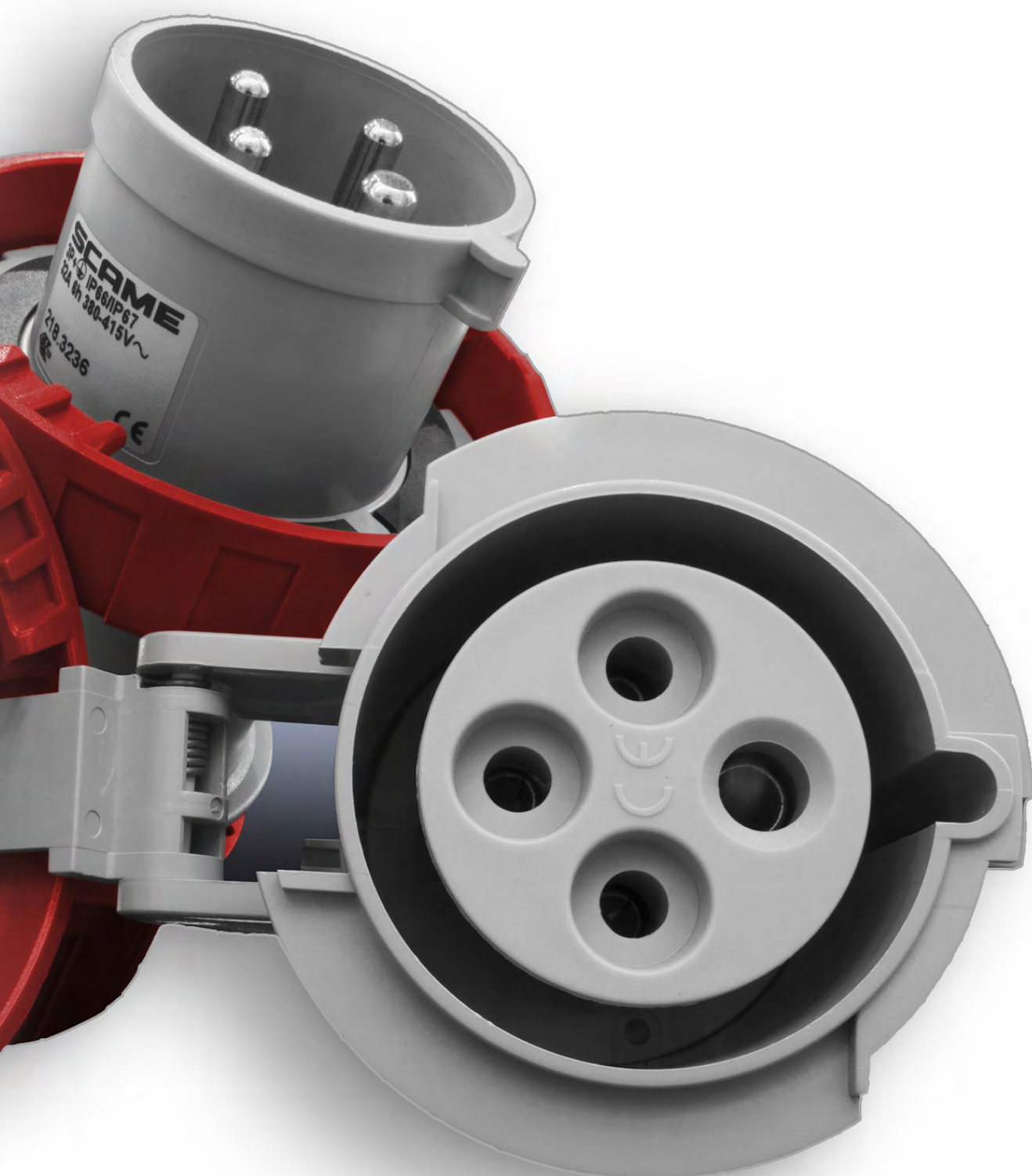


Connectors and sockets for industrial applications

- Connectors - IP44/IP54
- Connectors - IP66/IP67/IP69
- Flush mounting socket outlets - IP44/IP54
- Flush mounting socket outlets - IP66/IP67/IP69
- Surface mounting socket outlets - IP44/IP54
- Surface mounting socket outlets - IP66/IP67/IP69
- Surface mounting switched socket outlets without interlock - IP44/IP54
- Surface mounting switched socket outlets without interlock - IP66/IP67/IP69
- Domestic standard socket for industrial applications - IP54
- BS socket for industrial applications - IP66
- Accessories for sockets





Connectors and sockets for industrial applications

Connectors - IP44/IP54

OPTIMA Series >> Connectors

OPTIMA Series

313.



Screw terminals

CONNECTOR

IP44/IP54

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	313.1640	10/50	313.3240	10/40
		200-250V	Blue	6h	313.1643	10/50	313.3243	10/40
		380-415V	Red	9h	313.1648	10/50	313.3248	10/40
		480-500V	Black	7h	313.16436	10/50	313.32436	10/40
		TST>50V	Grey	12h	313.16433	10/50	313.32433	10/40
	>300-500Hz	>50V	Green	2h	313.16432	10/50	313.32432	10/40
	DC	>50-250V	Grey	3h	313.16434	10/50	313.32434	10/40
		>250V	Grey	8h	313.16438	10/50	313.32438	10/40
3P+E	50Hz 60Hz	100-130V	Yellow	4h	313.1641	10/50	313.3241	10/40
		200-250V	Blue	9h	313.1644	10/50	313.3244	10/40
		380-415V	Red	6h	313.1646	10/50	313.3246	10/40
		380V 50Hz / 440V 60Hz	Red	3h	313.16464	10/50	313.32464	10/40
		480-500V	Black	7h	313.16466	10/50	313.32466	10/40
	60Hz	600-690V	Black	5h	313.16467	10/50	313.32467	10/40
		440-460V	Red	11h	313.16465	10/50	313.32465	10/40
		>300-500Hz	Green	2h	313.16462	10/50	313.32462	10/40
3P+N+E	50Hz 60Hz	100-130V	Yellow	4h	313.1642	10/50	313.3242	10/40
		208-250V	Blue	9h	313.1645	10/50	313.3245	10/40
		346-415V	Red	6h	313.1647	10/50	313.3247	10/40
		380V 50Hz / 440V 60Hz	Red	3h	313.16474	10/50	313.32474	10/40
		480-500V	Black	7h	313.16476	10/50	313.32476	10/40
	60Hz	600-690V	Black	5h	313.16477	10/50	313.32477	10/40
		440-460V	Red	11h	313.16475	10/50	313.32475	10/40
	>300-500Hz	>50V	Green	2h	313.16472	10/50	313.32472	10/40



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

OPTIMA Series >> Connectors

					OPTIMA Series		
					313.		
							
					 Perforating terminals		
					CONNECTOR		
					IP44/IP54		
					CABLE GLAND		
					16A		
2P+E	50Hz 60Hz	100-130V		4h	313.1640P	10/50	
		200-250V		6h	313.1643P	10/50	
		380-415V		9h	313.1648P	10/50	
3P+E		200-250V		6h	313.1644P	10/50	
		380-415V			313.1646P	10/50	
3P+N+E			346-415V			313.1647P	10/50

					OPTIMA Series		
					313.		
							
					 Spring terminals		
					CONNECTOR		
					IP44/IP54		
					CABLE GLAND		
					32A		
2P+E	50Hz 60Hz	100-130V		4h	313.3240F	10/40	
		200-250V		6h	313.3243F	10/40	
		380-415V		9h	313.3248F	10/40	
3P+E		200-250V		6h	313.3244F	10/40	
		380-415V			313.3246F	10/40	
3P+N+E			346-415V			313.3247F	10/40

1.2



Connectors and sockets for industrial applications

Connectors - IP44/IP54

OPTIMA Series >> Connectors

OPTIMA Series

313.



Mantle terminals

CONNECTOR
IP44/IP54
CABLE GLAND
63A

Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	313.6340	6/24
		200-250V		6h	313.6343	6/24
		380-415V		9h	313.6348	6/24
		480-500V		7h	313.63436	6/24
		TST>50V		12h	313.63433	6/24
	DC	>50V		2h	313.63432	6/24
		>50-250V		3h	313.63434	6/24
		>250V		8h	313.63438	6/24
3P+E	50Hz 60Hz	100-130V		4h	313.6341	6/24
		200-250V		9h	313.6344	6/24
		380-415V		6h	313.6346	6/24
		380V 50Hz / 440V 60Hz		3h	313.63464	6/24
		480-500V		7h	313.63466	6/24
	60Hz	600-690V		5h	313.63467	6/24
		440-460V		11h	313.63465	6/24
		>50V		10h	313.63461	6/24
3P+N+E	50Hz 60Hz	>50V		2h	313.63462	6/24
		100-130V		4h	313.6342	6/24
		208-250V		9h	313.6345	6/24
		346-415V		6h	313.6347	6/24
		380V 50Hz / 440V 60Hz		3h	313.63474	6/24
	60Hz	480-500V		7h	313.63476	6/24
		600-690V		5h	313.63477	6/24
		440-460V		11h	313.63475	6/24
	>300-500Hz	>50V		2h	313.63472	6/24



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

■ OPTIMA Series >> Connectors [Transparent version]

					OPTIMA Series			
					313.			
								
					 Screw terminals		 Perforating terminals	
					CONNECTOR			
					IP44/IP54			
					CABLE GLAND			
					16A			
Poles	Hz	Volt	Colour	h				
2P+E	50Hz 60Hz	100-130V		4h	313.1640.TR	10/50	313.1640P.TR	10/50
		200-250V		6h	313.1643.TR	10/50	313.1643P.TR	10/50

- Transparent grip

1.2













































OPTIMA Series >> Connectors [SAFE-IN]

OPTIMA Series

313.



Screw terminals

CONNECTOR

IP44/IP54

CABLE GLAND

16A

Poles	Hz	Volt	Colour	h	16A	
2P+E	50Hz 60Hz	100-130V		4h	313.1640H	10/50
		200-250V		6h	313.1643H	10/50
		380-415V		9h	313.1648H	10/50
200-250V			313.1644H		10/50	
380-415V			313.1646H		10/50	
3P+N+E		346-415V		6h	313.1647H	10/50

 Sockets with "SAFE-IN" safety device



THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.



Terminals
Screw terminals

EUREKA Series >> Connectors

					EUREKA Series			
					321.			
								
					 Screw terminals [Angled outlet]			
					CONNECTOR			
					IP44			
					CABLE SLEEVE			
Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	321.1640	10/100	321.3240	10/50
		200-250V			321.1643	10/100	321.3243	10/50
3P+E		380-415V		6h	321.1646	10/100	321.3246	10/50
3P+N+E		346-415V			321.1647	10/100	321.3247	10/50

XENIA Series >> Connectors

					XENIA Series			
					314.			
								
					 Screw terminals			
					CONNECTOR			
					IP44			
					CABLE GLAND			
Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	314.1640	40	314.3240	20
		200-250V			314.1643	40	314.3243	20
3P+E		380-415V		6h	314.1646	30	314.3246	20
3P+N+E		346-415V			314.1647	25	314.3247	15

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

OPTIMA Series >> Connectors

OPTIMA Series

318.



Screw terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	318.1640	10/40	318.3240	10/40
		200-250V	Blue	6h	318.1643	10/40	318.3243	10/40
		380-415V	Red	9h	318.1648	10/40	318.3248	10/40
		480-500V	Black	7h	318.16436	10/40	318.32436	10/40
		TST>50V	Grey	12h	318.16433	10/40	318.32433	10/40
	DC	>300-500Hz	Green	2h	318.16432	10/40	318.32432	10/40
		>50-250V	Grey	3h	318.16434	10/40	318.32434	10/40
		>250V	Grey	8h	318.16438	10/40	318.32438	10/40
3P+E	50Hz 60Hz	100-130V	Yellow	4h	318.1641	10/40	318.3241	10/40
		200-250V	Blue	9h	318.1644	10/40	318.3244	10/40
		380-415V	Red	6h	318.1646	10/40	318.3246	10/40
		380V 50Hz / 440V 60Hz	Red	3h	318.16464	10/40	318.32464	10/40
		480-500V	Black	7h	318.16466	10/40	318.32466	10/40
	60Hz	600-690V	Black	5h	318.16467	10/40	318.32467	10/40
		440-460V	Red	11h	318.16465	10/40	318.32465	10/40
		>300-500Hz	Green	10h	318.16461	10/40	318.32461	10/40
3P+N+E	50Hz 60Hz	>300-500Hz	Green	2h	318.16462	10/40	318.32462	10/40
		100-130V	Yellow	4h	318.1642	10/40	318.3242	10/40
		208-250V	Blue	9h	318.1645	10/40	318.3245	10/40
		346-415V	Red	6h	318.1647	10/40	318.3247	10/40
		380V 50Hz / 440V 60Hz	Red	3h	318.16474	10/40	318.32474	10/40
	60Hz	480-500V	Black	7h	318.16476	10/40	318.32476	10/40
		600-690V	Black	5h	318.16477	10/40	318.32477	10/40
		440-460V	Red	11h	318.16475	10/40	318.32475	10/40
	>300-500Hz	>50V	Green	2h	318.16472	10/40	318.32472	10/40



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)



Terminals
Perforating terminals (FAST WIRING)

OPTIMA Series >> Connectors

					OPTIMA Series		
					318.		
							
					 Perforating terminals		
					CONNECTOR		
					IP66/IP67/IP69		
					CABLE GLAND		
					16A		
2P+E	50Hz 60Hz	100-130V		4h	318.1640P	10/40	
		200-250V		6h	318.1643P	10/40	
		380-415V		9h	318.1648P	10/40	
3P+E		200-250V		6h	318.1644P	10/40	
		380-415V			318.1646P	10/40	
3P+N+E			346-415V			318.1647P	10/40

					OPTIMA Series		
					318.		
							
					 Spring terminals		
					CONNECTOR		
					IP66/IP67/IP69		
					CABLE GLAND		
					32A		
2P+E	50Hz 60Hz	100-130V		4h	318.3240F	10/40	
		200-250V		6h	318.3243F	10/40	
		380-415V		9h	318.3248F	10/40	
3P+E		200-250V		6h	318.3244F	10/40	
		380-415V			318.3246F	10/40	
		380V 50Hz / 440V 60Hz			3h	318.32464F	10/40
3P+N+E			346-415V		6h	318.3247F	10/40

1.2



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

OPTIMA Series >> Connectors

OPTIMA Series

318.



Mantle terminals

CONNECTOR

IP66/IP67/IP69

CABLE GLAND

Poles	Hz	Volt	Colour	h	63A		125A	
					Connector	Cable gland	Connector	Cable gland
2P+E	50Hz 60Hz	100-130V	Yellow	4h	318.6340	6/24	318.12540	1/8
		200-250V	Blue	6h	318.6343	6/24	318.12543	1/8
		380-415V	Red	9h	318.6348	6/24	318.12548	1/8
		480-500V	Black	7h	318.63436	6/24	318.125436	1/8
		TST>50V	Grey	12h	318.63433	6/24	318.125433	1/8
	DC	>300-500Hz	>50V	2h	318.63432	6/24	318.125432	1/8
		>50-250V	Grey	3h	318.63434	6/24	318.125434	1/8
		>250V	Grey	8h	318.63438	6/24	318.125438	1/8
3P+E	50Hz 60Hz	100-130V	Yellow	4h	318.6341	6/24	318.12541	1/8
		200-250V	Blue	9h	318.6344	6/24	318.12544	1/8
		380-415V	Red	6h	318.6346	6/24	318.12546	1/8
		380V 50Hz / 440V 60Hz	Red	3h	318.63464	6/24	318.125464	1/8
		480-500V	Black	7h	318.63466	6/24	318.125466	1/8
	60Hz	600-690V	Black	5h	318.63467	6/24	318.125467	1/8
		440-460V	Red	11h	318.63465	6/24	318.125465	1/8
		100-300Hz	Green	10h	318.63461	6/24	318.125461	1/8
3P+N+E	50Hz 60Hz	>300-500Hz	>50V	2h	318.63462	6/24	318.125462	1/8
		100-130V	Yellow	4h	318.6342	6/24	318.12542	1/8
		208-250V	Blue	9h			318.12545	1/8
		346-415V	Red	6h	318.6347	6/24	318.12547	1/8
		380V 50Hz / 440V 60Hz	Red	3h	318.63474	6/24	318.125474	1/8
	60Hz	480-500V	Black	7h	318.63476	6/24	318.125476	1/8
		600-690V	Black	5h	318.63477	6/24	318.125477	1/8
		440-460V	Red	11h	318.63475	6/24	318.125475	1/8
	>300-500Hz	>50V	Green	2h	318.63472	6/24	318.125472	1/8



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Perforating terminals (FAST WIRING)



Terminals
Screw terminals

OPTIMA Series >> Connectors (transparent version)

					OPTIMA Series	
					318.	
						
					 Perforating terminals	 Screw terminals
					CONNECTOR	
					IP66/IP67/IP69	
					CABLE GLAND	
					16A	
Poles	Hz	Volt	Colour	h		
2P+E	50Hz 60Hz	100-130V		4h	318.1640P.TR	10/40
		200-250V		6h	318.1643P.TR	10/40
					318.1640.TR	10/40
					318.1643.TR	10/40

- Transparent grip

1.2













































OPTIMA Series >> Connectors [SAFE-IN]

OPTIMA Series
318.

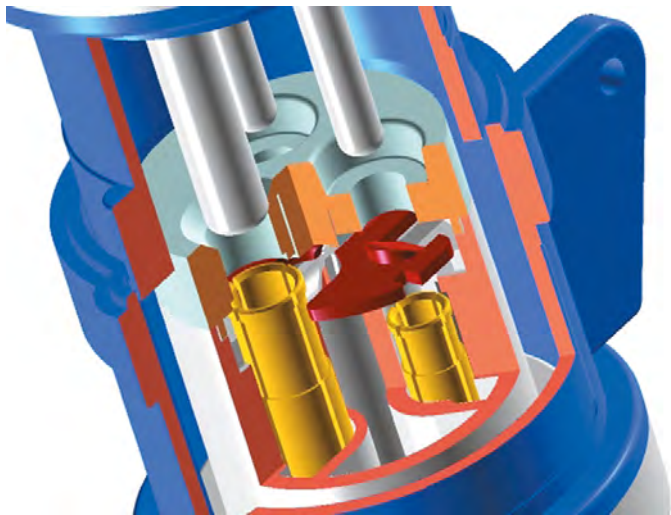


Screw terminals

Poles	Hz	Volt	Colour	h	
2P+E	50Hz 60Hz	100-130V		4h	
		200-250V		6h	
		380-415V		9h	
3P+E		200-250V		9h	
		380-415V		6h	
3P+N+E		346-415V			

CONNECTOR		
IP66/IP67/IP69		
CABLE GLAND		
16A		
	318.1640H	10/40
	318.1643H	10/40
	318.1648H	10/40
	318.1644H	10/40
	318.1646H	10/40
	318.1647H	10/40

Sockets with "SAFE-IN" safety device



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



Terminals
Screw terminals



Terminals
Mantle terminals (EASY-PLUG)

OPTIMA-HD Series >> Connectors [HEAVY DUTY]

OPTIMA-HD Series
318.



 Screw terminals

						CONNECTOR		
						IP66/IP67/IP69		
Current	Poles	Hz	Volt	Colour	h	CABLE GLAND		
16A	2P+E	50Hz 60Hz	200-250V		6h	318.1643.KX	10/40	
	3P+E		380-415V			318.1646.KX	10/40	
	3P+N+E		346-415V			318.1647.KX	10/40	
32A	2P+E		200-250V		3h	318.3243.KX	10/40	
	3P+E		380-415V			318.3246.KX	10/40	
			380V 50Hz / 440V 60Hz				318.32464.KX	1/12
			3P+N+E	346-415V			318.3247.KX	10/40
63A	2P+E		200-250V		6h	318.6343.KX	6/24	
	3P+E		380-415V			318.6346.KX	6/24	
			3P+N+E	346-415V			318.6347.KX	6/24
			2P+E	200-250V			318.12543.KX	1/8
125A	3P+E		380-415V			318.12546.KX	1/8	
	3P+N+E		346-415V			318.12547.KX	1/8	

-  High impact resistance
- High heat and fire resistance



CONVENTIONAL WIRING
Cage clamp connectors



Connectors and sockets for industrial applications

Connectors - IP66/IP67/IP69

EUREKA Series >> Connectors

1
INDUSTRY

					EUREKA Series				
					326.				
									
					 Screw terminals [Angled outlet]				
					CONNECTOR				
					IP66/IP67				
					CABLE GLAND				
Poles	Hz	Volt	Colour	h	16A		32A		
2P+E	50Hz 60Hz	100-130V		4h	326.1640	10/100	326.3240	10/40	
		200-250V		6h	326.1643	10/100	326.3243	10/40	
3P+E		380-415V		3h	326.1646	10/100	326.3246	10/40	
		380V 50Hz / 440V 60Hz		6h	326.1647	10/50	326.3247	10/40	
3P+N+E				346-415V					



Terminals
Screw terminals



Terminals
Mantle terminals (EASY-PLUG)

■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

413.



Screw terminals
[Angled outlet]



Mantle terminals
[Angled outlet]

					FLUSH-MOUNTING SOCKET					
					IP44/IP54					
Poles	Hz	Volt	Colour	h	70x87mm		84x106mm		100x110mm	
					16A		32A		63A	
2P+E	50Hz 60Hz	100-130V		4h	413.1660	10/100	413.3260	10/50	413.6360	
		200-250V		6h	413.1663	10/100	413.3263	10/50	413.6363	6/30
		380-415V		9h	413.1668	10/100	413.3268	10/50	413.6368	
		480-500V		7h	413.16636	10/100	413.32636	10/50	413.63636	
		TST>50V		12h	413.16633	10/100	413.32633	10/50	413.63633	
	DC	>300-500Hz		2h	413.16632	10/100	413.32632	10/50	413.63632	
		>50-250V		3h	413.16634	10/100	413.32634	10/50	413.63634	
		>250V		8h	413.16638	10/100	413.32638	10/50	413.63638	
3P+E	50Hz 60Hz	100-130V		4h	413.1661	10/100	413.3261	10/50	413.6361	
		200-250V		9h	413.1664	10/100	413.3264	10/50	413.6364	6/30
		380-415V		6h	413.1666	10/100	413.3266	10/50	413.6366	6/30
		380V 50Hz / 440V 60Hz		3h	413.16664	10/100	413.32664	10/50	413.63664	
		480-500V		7h	413.16666	10/100	413.32666	10/50	413.63666	
	60Hz	600-690V		5h	413.16667	10/100	413.32667	10/50	413.63667	
		440-460V		11h	413.16665	10/100	413.32665	10/50	413.63665	
		>300-500Hz		2h	413.16662	10/100	413.32662	10/50	413.63662	
3P+N+E	50Hz 60Hz	100-130V		4h	413.1662	10/100	413.3262	10/50	413.6362	6/30
		208-250V		9h	413.1665	10/100	413.3265	10/50	413.6365	
		346-415V		6h	413.1667	10/100	413.3267	10/50	413.6367	6/30
		380V 50Hz / 440V 60Hz		3h	413.16674	10/100	413.32674	10/50	413.63674	
		480-500V		7h	413.16676	10/100	413.32676	10/50	413.63676	
	60Hz	600-690V		5h	413.16677	10/100	413.32677	10/50	413.63677	
		440-460V		11h	413.16675	10/100	413.32675	10/50	413.63675	
		>300-500Hz		2h	413.16672	10/100	413.32672	10/50	413.63672	

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

423.



Mantle terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44/IP54

100x110mm

Current	Poles	Hz	Volt	Colour	h	
63A	2P+E	50Hz 60Hz	100-130V		4h	423.6360
			200-250V		6h	423.6363 6/30
			380-415V		9h	423.6368
			480-500V		7h	423.63636
			TST>50V		12h	423.63633
		>300-500Hz	>50V		2h	423.63632
			>50-250V		3h	423.63634
			>250V		8h	423.63638
		DC	100-130V		4h	423.6361
			200-250V		9h	423.6364
			380-415V		6h	423.6366 6/30
			380V 50Hz / 440V 60Hz		3h	423.63664
			480-500V		7h	423.63666
			600-690V		5h	423.63667
			440-460V		11h	423.63665
	3P+E	50Hz 60Hz	100-130V		4h	423.6362
			208-250V		9h	423.6365
			346-415V		6h	423.6367 6/30
			380V 50Hz / 440V 60Hz		3h	423.63674
			480-500V		7h	423.63676
		60Hz	600-690V		5h	423.63677
			440-460V		11h	423.63675
			>300-500Hz		2h	423.63672
		DC	100-130V		4h	423.6362
			208-250V		9h	423.6365
			346-415V		6h	423.6367 6/30
			380V 50Hz / 440V 60Hz		3h	423.63674
			480-500V		7h	423.63676
			600-690V		5h	423.63677
			440-460V		11h	423.63675
	3P+N+E	50Hz 60Hz	100-130V		4h	423.6362
			208-250V		9h	423.6365
			346-415V		6h	423.6367 6/30
			380V 50Hz / 440V 60Hz		3h	423.63674
			480-500V		7h	423.63676
		60Hz	600-690V		5h	423.63677
			440-460V		11h	423.63675
			>300-500Hz		2h	423.63672
		DC	100-130V		4h	423.6362
			208-250V		9h	423.6365
			346-415V		6h	423.6367 6/30
			380V 50Hz / 440V 60Hz		3h	423.63674
			480-500V		7h	423.63676
			600-690V		5h	423.63677
			440-460V		11h	423.63675



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Spring terminals (FAST WIRING)

OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series
413.



 Spring terminals
[Angled outlet]

					FLUSH-MOUNTING SOCKET				
					IP44/IP54				
					70x87mm		84x106mm		
Poles	Hz	Volt	Colour	h	16A		32A		
2P+E	50Hz 60Hz	100-130V		4h	413.1660F	10/100	413.3260F	10/50	
		200-250V		6h	413.1663F	10/100	413.3263F	10/50	
		380-415V		9h	413.1668F	10/100	413.3268F	10/50	
3P+E		200-250V		6h	413.1664F	10/100	413.3264F	10/50	
		380-415V			413.1666F	10/100	413.3266F	10/50	
3P+N+E			346-415V				413.1667F	10/100	413.3267F



FAST WIRING
Spring terminals



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

OPTIMA Series >> Flush mounting sockets outlets [SAFE-IN]

OPTIMA Series

413.



 **Screw terminals**
[Angled outlet]

Poles	Hz	Volt	Colour	h	
2P+E	50Hz 60Hz	100-130V		4h	
		200-250V		6h	
		380-415V		9h	
3P+E		200-250V		9h	
3P+N+E		380-415V		9h	
		346-415V		6h	

FLUSH-MOUNTING SOCKET

IP44/IP54

70x87mm

16A

413.1660H 10/100

413.1663H 10/100

413.1668H 10/100

413.1664H 10/100

413.1666H 10/100

413.1667H 10/100

 Sockets with "SAFE-IN" safety device



THE "SAFE-IN" SAFETY DEVICE

The "SAFE-IN" safety device assembled on the 16A industrial sockets works like the protection installed on household sockets, i.e., by means of an appropriate shutter, it closes the input of the socket contact tubes and prevents accidental and voluntary contact of live parts of the socket with slim objects, such as screwdrivers or wires. This protection offers an additional safety guarantee, in addition to that already provided by the spring-loaded cover assembled on the mobile sockets.



Terminals
Screw terminals

EUREKA Series >> Flush / surface mounting socket outlets

EUREKA Series

452.



Screw terminals
[90° angled outlet]

SOCKET OUTLET

IP44

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	452.1660	10/100	452.3260	10/40
		200-250V		6h	452.1663	10/100	452.3263	10/40
		380-415V		9h	452.1668	10/100	452.3268	10/40
		480-500V		7h	452.16636		452.32636	
		TST>50V		12h	452.16633		452.32633	
	>300-500Hz	>50V		2h	452.16632		452.32632	
		>50-250V		3h	452.16634		452.32634	10/40
	DC	>250V		8h	452.16638		452.32638	
3P+E	50Hz 60Hz	100-130V		4h	452.1661	10/60	452.3261	10/40
		200-250V		9h	452.1664	10/60	452.3264	10/40
		380-415V		6h	452.1666	10/60	452.3266	10/40
		380V 50Hz / 440V 60Hz		3h	452.16664		452.32664	10/40
		480-500V		7h	452.16666		452.32666	
	60Hz	600-690V		5h	452.16667		452.32667	
		440-460V		11h	452.16665		452.32665	10/40
	100-300Hz	>50V		10h	452.16661	10/60	452.32661	
	>300-500Hz	>50V		2h	452.16662		452.32662	
3P+N+E	50Hz 60Hz	100-130V		4h	452.1662	10/60	452.3262	10/40
		208-250V		9h	452.1665	10/60	452.3265	10/40
		346-415V		6h	452.1667	10/60	452.3267	10/40
		380V 50Hz / 440V 60Hz		3h	452.16674		452.32674	10
		480-500V		7h	452.16676		452.32676	10
	60Hz	600-690V		5h	452.16677		452.32677	10
		440-460V		11h	452.16675		452.32675	10
	>300-500Hz	>50V		2h	452.16672	10/60	452.32672	10

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP44/IP54

EUREKA Series >> Flush mounting socket outlets

EUREKA Series

422.



Screw terminals
[Straight outlet]



Screw terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP44

62x62mm

75x75mm

16A

32A

Poles	Hz	Volt	Colour	h	16A		32A			
2P+E	50Hz 60Hz	100-130V		4h	422.1660/R	10/100	422.1660	10/100	422.3260	10/50
		200-250V		6h	422.1663/R	10/100	422.1663	10/100	422.3263	10/50
		380-415V		9h	422.1668/R	10/100	422.1668	10/100	422.3268	10/50
		480-500V		7h			422.16636	10/100	422.32636	10/50
		TST>50V		12h			422.16633	10/100	422.32633	10/50
	>300-500Hz	>50V		2h			422.16632	10/100	422.32632	10/50
	DC	>50-250V		3h			422.16634	10/100	422.32634	10/50
		>250V		8h			422.16638	10/100	422.32638	10/50
3P+E	50Hz 60Hz	100-130V		4h			422.1661	10/100	422.3261	10/50
		200-250V		9h			422.1664	10/100	422.3264	10/50
		380-415V		6h			422.1666	10/100	422.3266	10/50
		380V 50Hz / 440V 60Hz		3h			422.16664	10/100	422.32664	10/50
		480-500V		7h			422.16666	10/100	422.32666	10/50
	600-690V		5h			422.16667	10/100	422.32667	10/50	
	60Hz	440-460V		11h			422.16665	10/100	422.32665	10/50
	100-300Hz	>50V		10h			422.16661	10/100	422.32661	10/50
	>300-500Hz			2h			422.16662	10/100	422.32662	10/50
3P+N+E	50Hz 60Hz	100-130V		4h			422.1662	10/100	422.3262	10/50
		208-250V		9h			422.1665	10/100	422.3265	10/50
		346-415V		6h			422.1667	10/100	422.3267	10/50
		380V 50Hz / 440V 60Hz		3h			422.16674	10/100	422.32674	10/50
		480-500V		7h			422.16676	10/100	422.32676	10/50
	600-690V		5h			422.16677	10/100	422.32677	10/50	
	60Hz	440-460V		11h			422.16675	10/100	422.32675	10/50
	>300-500Hz	>50V		2h			422.16672	10/100	422.32672	10/50



Terminals
Screw terminals

■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

418.



Screw terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	70x87mm		84x106mm	
					16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	418.1660	10/100	418.3260	10/50
		200-250V		6h	418.1663	10/100	418.3263	10/50
		380-415V		9h	418.1668	10/100	418.3268	10/50
		480-500V		7h	418.16636	10/100	418.32636	10/50
		TST>50V		12h	418.16633	10/100	418.32633	10/50
	>300-500Hz	>50V		2h	418.16632	10/100	418.32632	10/50
		>50-250V		3h	418.16634	10/100	418.32634	10/50
		>250V		8h	418.16638	10/100	418.32638	10/50
3P+E	50Hz 60Hz	100-130V		4h	418.1661	10/100	418.3261	10/50
		200-250V		9h	418.1664	10/100	418.3264	10/50
		380-415V		6h	418.1666	10/100	418.3266	10/50
		380V 50Hz / 440V 60Hz		3h	418.16664	10/100	418.32664	10/50
		480-500V		7h	418.16666	10/100	418.32666	10/50
		600-690V		5h	418.16667	10/100	418.32667	10/50
	60Hz	440-460V		11h	418.16665	10/100	418.32665	10/50
	100-300Hz	>50V		10h	418.16661	10/100	418.32661	10/50
	>300-500Hz	>50V		2h	418.16662	10/100	418.32662	10/50
		>50V		2h	418.16662	10/100	418.32662	10/50
3P+N+E	50Hz 60Hz	100-130V		4h	418.1662	10/100		
		208-250V		9h	418.1665	10/100	418.3265	10/50
		346-415V		6h	418.1667	10/100	418.3267	10/50
		380V 50Hz / 440V 60Hz		3h	418.16674	10/100	418.32674	10/50
		480-500V		7h	418.16676	10/100	418.32676	10/50
		600-690V		5h	418.16677	10/100	418.32677	10/50
	60Hz	440-460V		11h	418.16675	10/100	418.32675	10/50
	>300-500Hz	>50V		2h	418.16672	10/100	418.32672	10/50
		>50V		2h	418.16672	10/100	418.32672	10/50
		>50V		2h	418.16672	10/100	418.32672	10/50

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

418.



Mantle terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

100x110mm

114x114mm

63A

125A

Poles	Hz	Volt	Colour	h	100x110mm		114x114mm	
2P+E	50Hz 60Hz	100-130V		4h	418.6360	6/30	418.12560	1/10
		200-250V		6h	418.6363	6/30	418.12563	1/10
		380-415V		9h	418.6368	6/30	418.12568	1/10
		480-500V		7h	418.63636	6/30	418.125636	1/10
		TST>50V		12h	418.63633	6/30	418.125633	1/10
	DC	>300-500Hz		2h	418.63632	6/30	418.125632	1/10
		>50-250V		3h	418.63634	6/30	418.125634	1/10
		>250V		8h	418.63638	6/30	418.125638	1/10
3P+E	50Hz 60Hz	100-130V		4h	418.6361	6/30	418.12561	1/10
		200-250V		9h	418.6364	6/30	418.12564	1/10
		380-415V		6h	418.6366	6/30	418.12566	1/10
		380V 50Hz / 440V 60Hz		3h	418.63664	6/30	418.125664	1/10
		480-500V		7h	418.63666	6/30	418.125666	1/10
	60Hz	600-690V		5h	418.63667	6/30	418.125667	1/10
		440-460V		11h	418.63665	6/30	418.125665	1/10
		>300-500Hz		10h	418.63661	6/30	418.125661	1/10
3P+N+E	50Hz 60Hz	>300-500Hz		2h	418.63662	6/30	418.125662	1/10
		100-130V		4h	418.6362	6/30	418.12562	1/10
		208-250V		9h	418.6365	6/30	418.12565	1/10
		346-415V		6h	418.6367	6/30	418.12567	1/10
		380V 50Hz / 440V 60Hz		3h	418.63674	6/30	418.125674	1/10
	60Hz	480-500V		7h	418.63676	6/30	418.125676	1/10
		600-690V		5h	418.63677	6/30	418.125677	1/10
		440-460V		11h	418.63675	6/30	418.125675	1/10
	>300-500Hz	>50V		2h	418.63672	6/30	418.125672	1/10



Terminals
Mantle terminals (EASY-PLUG)

■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

428.



Mantle terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

Poles	Hz	Volt	Colour	h	100x110mm		114x114mm	
					63A		125A	
2P+E	50Hz 60Hz	100-130V		4h	428.6360	6/30	428.12560	1/10
		200-250V		6h	428.6363	6/30	428.12563	1/10
		380-415V		9h	428.6368	6/30	428.12568	1/10
		480-500V		7h	428.63636	6/30	428.125636	1/10
		TST>50V		12h	428.63633	6/30	428.125633	1/10
	DC	>300-500Hz		2h	428.63632	6/30	428.125632	1/10
		>50-250V		3h	428.63634	6/30	428.125634	1/10
		>250V		8h	428.63638	6/30	428.125638	1/10
3P+E	50Hz 60Hz	100-130V		4h	428.6361	6/30	428.12561	1/10
		200-250V		9h	428.6364	6/30	428.12564	1/10
		380-415V		6h	428.6366	6/30	428.12566	1/10
		380V 50Hz / 440V 60Hz		3h	428.63664	6/30	428.125664	1/10
		480-500V		7h	428.63666	6/30	428.125666	1/10
	60Hz	600-690V		5h	428.63667	6/30	428.125667	1/10
		440-460V		11h	428.63665	6/30	428.125665	1/10
		>300-500Hz		10h	428.63661	6/30	428.125661	1/10
3P+N+E	50Hz 60Hz	>300-500Hz		2h	428.63662	6/30	428.125662	1/10
		100-130V		4h	428.6362	6/30	428.12562	1/10
		208-250V		9h	428.6365	6/30	428.12565	1/10
		346-415V		6h	428.6367	6/30	428.12567	1/10
		380V 50Hz / 440V 60Hz		3h	428.63674	6/30	428.125674	1/10
	60Hz	480-500V		7h	428.63676	6/30	428.125676	1/10
		600-690V		5h	428.63677	6/30	428.125677	1/10
		440-460V		11h	428.63675	6/30	428.125675	1/10
	>300-500Hz	>50V		2h	428.63672	6/30	428.125672	1/10

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Flush mounting socket outlets

OPTIMA Series

418.



Spring terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67/IP69

70x87mm

84x106mm

16A

32A

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	418.1660F	10/100	418.3260F	10/50
		200-250V		6h	418.1663F	10/100	418.3263F	10/50
		380-415V		9h	418.1668F	10/100	418.3268F	10/50
200-250V			418.1664F		10/100	418.3264F	10/50	
380-415V			418.1666F		10/100	418.3266F	10/50	
3P+N+E		346-415V	6h	418.1667F	10/100	418.3267F	10/50	



Terminals
Spring terminals (FAST WIRING)



Terminals
Screw terminals

OPTIMA Series >> Flush mounting sockets outlets [SAFE-IN]

OPTIMA Series
418.

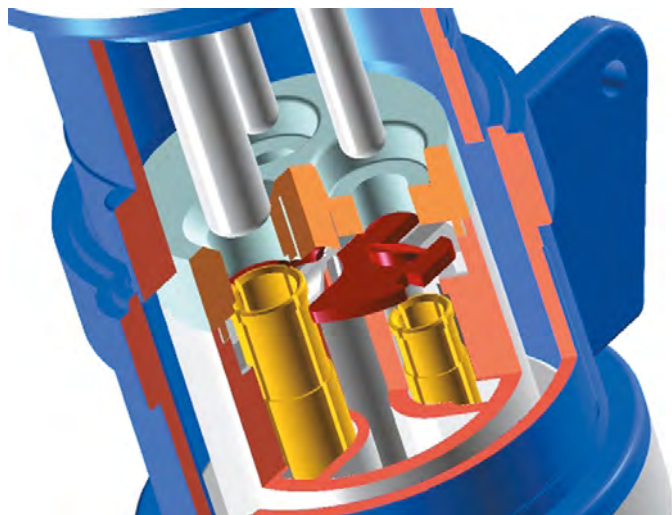


 Screw terminals
[Angled outlet]

FLUSH-MOUNTING SOCKET
IP66/IP67/IP69
70x87mm
16A

Poles	Hz	Volt	Colour	h	16A		
2P+E	50Hz 60Hz	100-130V		4h	418.1660H	10/100	
		200-250V		6h	418.1663H	10/100	
		380-415V		9h	418.1668H	10/100	
3P+E		200-250V		6h	418.1664H	10/100	
		380-415V			418.1666H	10/100	
3P+N+E		346-415V				418.1667H	10/100

 Sockets with "SAFE-IN" safety device



SAFE-IN

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

1.2



Connectors and sockets for industrial applications

Flush mounting socket outlets - IP66/IP67/IP69

EUREKA Series >> Flush / surface mounting socket outlets

EUREKA Series

457.



Screw terminals
[90° angled outlet]

SOCKET OUTLET

IP66/IP67

70x87mm

PG 16

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V	Yellow	4h	457.1660	10/60	457.3260	10/40
		200-250V	Blue	6h	457.1663	10/60	457.3263	10/40
		380-415V	Red	9h	457.1668	10/60	457.3268	10/40
		480-500V	Black	7h	457.16636		457.32636	10/40
		TST>50V	Grey	12h	457.16633		457.32633	
	>300-500Hz	>50V	Green	2h	457.16632		457.32632	
	DC	>50-250V	Grey	3h	457.16634		457.32634	10/40
		>250V	Grey	8h	457.16638		457.32638	
3P+E	50Hz 60Hz	100-130V	Yellow	4h	457.1661	10/50	457.3261	10/40
		200-250V	Blue	9h	457.1664	10/50	457.3264	10/40
		380-415V	Red	6h	457.1666	10/50	457.3266	10/40
		380V 50Hz / 440V 60Hz	Red	3h	457.16664		457.32664	10/40
		480-500V	Black	7h	457.16666	10/50	457.32666	10/40
	60Hz	600-690V	Black	5h	457.16667		457.32667	
	100-300Hz	440-460V	Red	11h	457.16665		457.32665	
	>300-500Hz	>50V	Green	10h	457.16661	10/50	457.32661	
3P+N+E	50Hz 60Hz	>50V	Green	2h	457.16662		457.32662	
		100-130V	Yellow	4h	457.1662	10/50	457.3262	10/40
		208-250V	Blue	9h	457.1665	10/50	457.3265	10/40
		346-415V	Red	6h	457.1667	10/50	457.3267	10/40
		380V 50Hz / 440V 60Hz	Red	3h	457.16674	10/50	457.32674	10/40
	60Hz	480-500V	Black	7h	457.16676		457.32676	10
		600-690V	Black	5h	457.16677		457.32677	10/40
		440-460V	Red	11h	457.16675		457.32675	10/40
	>300-500Hz	>50V	Green	2h	457.16672		457.32672	10



Terminals
Screw terminals

EUREKA Series >> Flush mounting socket outlets

EUREKA Series

427.



Screw terminals
[Straight outlet]

FLUSH-MOUNTING SOCKET

IP66/IP67

75x75mm

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	427.1660	10/100	427.3260	10/50
		200-250V		6h	427.1663	10/100	427.3263	10/50
		380-415V		9h	427.1668	10/100	427.3268	10/50
		480-500V		7h	427.16636	10/100	427.32636	10/50
		TST>50V		12h	427.16633	10/100	427.32633	10/50
	DC	>50V		2h	427.16632	10/100	427.32632	10/50
		>50-250V		3h	427.16634	10/100	427.32634	10/50
		>250V		8h	427.16638	10/100	427.32638	10/50
3P+E	50Hz 60Hz	100-130V		4h	427.1661	10/100	427.3261	10/50
		200-250V		9h	427.1664	10/100	427.3264	10/50
		380-415V		6h	427.1666	10/100	427.3266	10/50
		380V 50Hz / 440V 60Hz		3h	427.16664	10/100	427.32664	10/50
		480-500V		7h	427.16666	10/100	427.32666	10/50
	60Hz	600-690V		5h	427.16667	10/100	427.32667	10/50
		440-460V		11h	427.16665	10/100	427.32665	10/50
		>50V		10h	427.16661	10/100	427.32661	10/50
3P+N+E	50Hz 60Hz	>50V		2h	427.16662	10/100	427.32662	10/50
		100-130V		4h	427.1662	10/100	427.3262	10/50
		208-250V		9h	427.1665	10/100	427.3265	10/50
		346-415V		6h	427.1667	10/100	427.3267	10/50
		380V 50Hz / 440V 60Hz		3h	427.16674	10/100	427.32674	10/50
	60Hz	480-500V		7h	427.16676	10/100	427.32676	10/50
		600-690V		5h	427.16677	10/100	427.32677	10/50
		440-460V		11h	427.16675	10/100	427.32675	10/50
	>300-500Hz	>50V		2h	427.16672	10/100	427.32672	10/50

1.2



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		513.16561T 10/40	513.32561T	10
3P+N+E	50Hz 60Hz	100-130V		4h		513.16562T 10/40	513.32562T	10
		100-300Hz		10h		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
	60Hz	480-500V		7h		513.16576T 10/40	513.32576T	10
		600-690V		5h		513.16577T 10/40	513.32577T	10
		440-460V		11h		513.16575T 10/40	513.32575T	10
	>300-500Hz	>50V		2h		513.16572T 10/40	513.32572T	10

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

1.2



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	
Poles	Hz	Volt	Colour	h		
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	
	DC	>50V		2h	513.63532T	
		>50-250V		3h	513.63534T	
		>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	
		>50V		10h	513.63561T	
3P+N+E	50Hz 60Hz	>50V		2h	513.63562T	
		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	
	60Hz	480-500V		7h	513.63576T	
		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

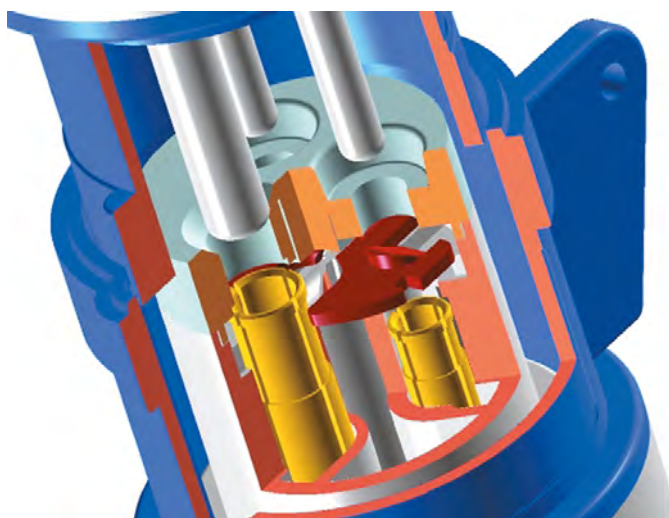
M25X1,5

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

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

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP44/IP54

■ 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	16A		32A		
2P+E	50Hz 60Hz	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		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

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



 **TOP - Screw terminals**

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	518.1650T	10/40	518.3250T	10
		200-250V		6h	518.1653T	10/40	518.3253T	10
		380-415V		9h	518.1658T	10/40	518.3258T	10
		480-500V		7h	518.16536T	10/40	518.32536T	10
		TST>50V		12h	518.16533T	10/40	518.32533T	10
	DC	>300-500Hz		2h	518.16532T	10/40	518.32532T	10
		>50-250V		3h	518.16534T	10/40	518.32534T	10
		>250V		8h	518.16538T	10/40	518.32538T	10
3P+E	50Hz 60Hz	100-130V		4h	518.1651T	10/40	518.3251T	10
		200-250V		9h	518.1654T	10/40	518.3254T	10
		380-415V		6h	518.1656T	10/40	518.3256T	10
		380V 50Hz / 440V 60Hz		3h	518.16564T	10/40	518.32564T	10
		480-500V		7h	518.16566T	10/40	518.32566T	10
	60Hz	600-690V		5h	518.16567T	10/40	518.32567T	10
		440-460V		11h	518.16565T	10/40	518.32565T	10
		100-300Hz		10h	518.16561T	10/40	518.32561T	10
		>300-500Hz		2h	518.16562T	10/40	518.32562T	10
		>300-500Hz		2h	518.16562T	10/40	518.32562T	10
3P+N+E	50Hz 60Hz	100-130V		4h	518.1652T	10/40	518.3252T	10
		208-250V		9h	518.1655T	10/40	518.3255T	10
		346-415V		6h	518.1657T	10/40	518.3257T	10
		380V 50Hz / 440V 60Hz		3h	518.16574T	10/40	518.32574T	10
		480-500V		7h	518.16576T	10/40	518.32576T	10
	60Hz	600-690V		5h	518.16577T	10/40	518.32577T	10
		440-460V		11h	518.16575T	10/40	518.32575T	10
		>300-500Hz		2h	518.16572T	10/40	518.32572T	10
		>300-500Hz		2h	518.16572T	10/40	518.32572T	10
		>300-500Hz		2h	518.16572T	10/40	518.32572T	10

- Threaded break-through knock out



Terminals
Screw terminals



Terminals
Spring terminals (FAST WIRING)

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP - Spring terminals

				SURFACE MOUNTING SOCKET					
				IP66/IP67/IP69					
				M20X1,5		M25X1,5		M32X1,5	
Poles	Hz	Volt	Colour	h	16A		32A		
2P+E	50Hz 60Hz	100-130V		4h	518.1650TF	10/40		518.3250TF	10
		200-250V		6h	518.1653TF	10/40		518.3253TF	10
		380-415V		9h	518.1658TF	10/40		518.3258TF	10
200-250V					518.1654TF	10/40	518.3254TF	10	
380-415V			518.1656TF		10/40	518.3256TF	10		
3P+E		380V 50Hz / 440V 60Hz		3h				518.32564TF	10
3P+N+E		346-415V		6h		518.1657TF	10/40	518.3257TF	10

- Threaded break-through knock out

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP - Mantle terminals

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

M40X1,5

63A

M63X1,5

125A

Poles	Hz	Volt	Colour	h			
2P+E	50Hz 60Hz	100-130V		4h	518.6350T	4	518.12550T 1/4
		200-250V		6h	518.6353T	4	518.12553T 1/4
		380-415V		9h	518.6358T	4	518.12558T 1/4
		480-500V		7h	518.63536T		518.125536T
		TST>50V		12h	518.63533T		518.125533T
	DC	>50V		2h	518.63532T		518.125532T
		>50-250V		3h	518.63534T		518.125534T
		>250V		8h	518.63538T		518.125538T
		100-130V		4h	518.6351T	4	518.12551T 1/4
		200-250V		9h	518.6354T	4	518.12554T 1/4
3P+E	50Hz 60Hz	380-415V		6h	518.6356T	4	518.12556T 1/4
		380V 50Hz / 440V 60Hz		3h	518.63564T		518.125564T
		480-500V		7h	518.63566T		518.125566T
		600-690V		5h	518.63567T		518.125567T
		60Hz		11h	518.63565T		518.125565T
	>300-500Hz	440-460V		10h	518.63561T		518.125561T
		>50V		2h	518.63562T		518.125562T
		100-130V		4h	518.6352T	4	518.12552T 1/4
		208-250V		9h	518.6355T	4	518.12555T 1/4
		346-415V		6h	518.6357T	4	518.12557T 1/4
3P+N+E	50Hz 60Hz	380V 50Hz / 440V 60Hz		3h	518.63574T		518.125574T
		480-500V		7h	518.63576T		518.125576T
		600-690V		5h	518.63577T		518.125577T
		60Hz		11h	518.63575T		518.125575T
		>300-500Hz		2h	518.63572T		518.125572T
	60Hz	440-460V		11h	518.63575T		518.125575T
		>50V		2h	518.63572T		518.125572T
		>50V		2h	518.63572T		518.125572T

- Open threaded cable entry
- Cable gland included



Terminals
Mantle terminals (EASY-PLUG)



Terminals
Screw terminals

OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

518.



TOP - Screw
terminals [SAFE-
IN]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

M20X1,5

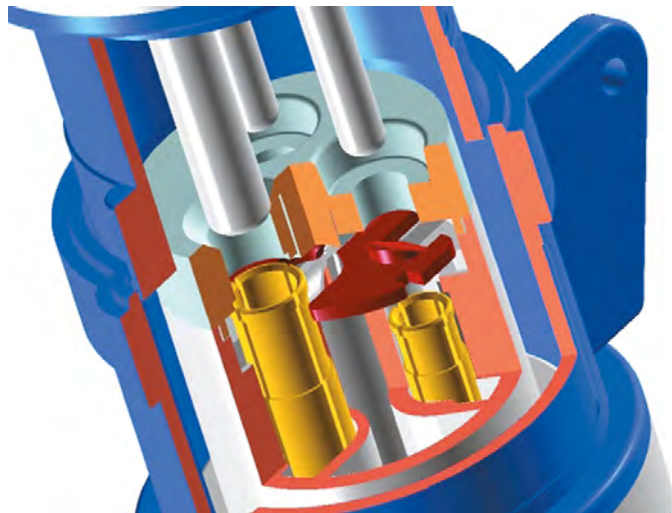
M25X1,5

16A

Poles	Hz	Volt	Colour	h			
2P+E	50Hz 60Hz	100-130V		4h	518.1650TH	10/40	
		200-250V		6h	518.1653TH	10/40	
		380-415V		9h	518.1658TH	10/40	
3P+E	50Hz 60Hz	200-250V					518.1654TH 10/40
		380-415V					518.1656TH 10/40
3P+N+E		346-415V		6h			518.1657TH 10/40

Sockets with "SAFE-IN" safety device

- Threaded break-through knock out



SAFE-IN

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

1.2



Connectors and sockets for industrial applications

Surface mounting socket outlets - IP66/IP67/IP69

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

517.



Screw terminals
[Angled box]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

M20X1,5

M25X1,5

M32X1,5

16A

32A

Poles	Hz	Volt	Colour	h	16A		32A		
2P+E	50Hz 60Hz	100-130V		4h	517.1650	10/50	517.3250	10/40	
		200-250V		6h	517.1653	10/50	517.3253	10/40	
		380-415V		9h	517.1658	10/50	517.3258	10/40	
3P+E		100-130V		4h	517.1651	10/50	517.3251	10/40	
		200-250V		9h	517.1654	10/50	517.3254	10/40	
		380-415V		6h	517.1656	10/50	517.3256	10/40	
		380V 50Hz / 440V 60Hz		3h			517.32564	10/40	
3P+N+E		100-130V		4h	517.1652	10/40	517.3252	10/40	
		208-250V		9h	517.1655	10/40	517.3255	10/40	
		346-415V		6h	517.1657	10/40	517.3257	10/40	

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



Terminals
Screw terminals

OPTIMA Series >> Surface mounting socket outlets

OPTIMA Series

527.



 Screw terminals
[Straight box]

SURFACE MOUNTING SOCKET

IP66/IP67/IP69

DRILLING POINT MARK

Poles	Hz	Volt	Colour	h	16A		32A	
2P+E	50Hz 60Hz	100-130V		4h	527.1650	10/50	527.3250	10/40
		200-250V		6h	527.1653	10/50	527.3253	10/40
		380-415V		9h	527.1658	10/50	527.3258	10/40
3P+E		100-130V		4h	527.1651	10/50	527.3251	10/40
		200-250V		9h	527.1654	10/50	527.3254	10/40
		380-415V		6h	527.1656	10/50	527.3256	10/40
3P+N+E		100-130V		4h	527.1652	10/50	527.3252	10/40
		208-250V		9h	527.1655	10/50	527.3255	10/40
		346-415V		6h	527.1657	10/50	527.3257	10/40

- Blank side with drilling point mark

1.2



Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-TOP Series

513.



TOP SWITCH -
Screw terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M25X1,5

M32X1,5

Poles	Hz	Volt	Colour	h	16A	32A
2P+E		200-250V			513.1653TS ^{[1][2]} 10	513.3253TS.A ^{[1][2]} 10
3P+E	50Hz 60Hz	380-415V		6h	513.1656TS ^{[1][2]} 10	513.3256TS.A ^{[1][2]} 10
3P+N+E		346-415V			513.1657TS ^{[1][2]} 10	513.3257TS.A ^{[1][2]} 10

[1] Open threaded cable entry

[2] Threaded cap/cable sleeve included

[3] Threaded break-through knock out



Terminals
Screw terminals



FRENCH STANDARD
16A
Shuttered socket



ARGENTINIAN
STANDARD 10A
Unshuttered socket

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.



**COMBI SWITCH -
Screw terminals**

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	no.	16A		32A	
2P+E		200-250V			☺ FRENCH	1	513.1653-1FNS	8	513.3253-1FFS ¹	8
					☺ ARGENTINE	2	513.1653-2FNS	8	513.3253-2FFS ¹	8
					☺ FRENCH	1	513.1656-1FNS	8	513.3256-1FFS ¹	8
					☺ ARGENTINE	2	513.1656-2FNS	8	513.3256-2FFS ¹	8
3P+E	50Hz 60Hz	380-415V		6h	☺ FRENCH	1	513.1656-1FNS	8	513.3256-1FFS ¹	8
					☺ ARGENTINE	2	513.1656-2FNS	8	513.3256-2FFS ¹	8
					☺ FRENCH	1	513.1657-1FNS	8	513.3257-1FFS ¹	8
					☺ ARGENTINE	2	513.1657-2FNS	8	513.3257-2FFS ¹	8
3P+N+E		346-415V			☺ FRENCH	1	513.1657-1FNS	8	513.3257-1FFS ¹	8
					☺ ARGENTINE	2	513.1657-2FNS	8	513.3257-2FFS ¹	8

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

1.2



Connectors and sockets for industrial applications

Surface mounting switched socket outlets without interlock - IP44/IP54

■ OPTIMA Series >> Surface mounting socket outlets

OPTIMA-COMBI Series

513.



COMBI REVERSE
L-0-R - Screw
terminals

SURFACE MOUNTING SOCKET

IP44/IP54

M32X1,5

Poles	Hz	Volt	Colour	h	Version	no.	16A	32A
3P+E	50Hz 60Hz	380-415V		6h	☺ FRENCH	1	513.1656-1FNR 8	513.3256-1FFR 1 8
						2	513.1656-2FNR 8	513.3256-2FFR 1 8
3P+N+E		346-415V				1	513.1657-1FNR 8	513.3257-1FFR 1 8
						2	513.1657-2FNR 8	513.3257-2FFR 1 8

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

- Open threaded cable entry
- Rubber threaded cable sleeve included
- REVERSE L-0-R: With phase reversing switch
- COMBI version: combining industrial and household sockets



FRENCH STANDARD
16A
Shuttered socket



Terminals
Screw terminals

OPTIMA Series >> Surface mounting socket outlets

						OPTIMA-TOP Series							
						518.							
													
						 TOP SWITCH - Screw terminals							
						SURFACE MOUNTING SOCKET							
						IP66/IP67/IP69							
						M25X1,5			M32X1,5				
Poles	Hz	Volt	Colour	h	16A			32A					
2P+E		200-250V			518.1653TS	 	10	518.3253TS.A	 	10	518.3253TS		10
3P+E	50Hz 60Hz	380-415V		6h	518.1656TS	 	10	518.3256TS.A	 	10	518.3256TS		10
3P+N+E		346-415V			518.1657TS	 	10	518.3257TS.A	 	10	518.3257TS		10

- ¹ Open threaded cable entry
- ² Threaded cap/cable sleeve included
- ³ Threaded break-through knock out

1.2

















