

THE SAFEST CONNECTOR > THE IDEAL MOTOR DISCONNECT

Woodhead ArcArrest 30A Switch-Rated Connector System



molex



Woodhead ArcArrest devices are plugs and receptacles that provide the safety and functionality of a switch.

Plugs and receptacles listed under UL 2682 can operate as switches and be used to disconnect loads while energized because of silver alloy contact tips.

The user is completely shielded from this energy because the plug maintains a connection with the receptacle during operation. A twisting motion must be applied by the user to remove the plug after the circuit has been interrupted.



Ensure safety with the Woodhead ArcArrest 30A Switch-Rated Connector System

Visually De-Energize Equipment

The Woodhead ArcArrest 30A Switch-Rated Connector System delivers the simplest and fastest way to de-energize industrial machines and equipment. There is visual proof, by the plug being separated from the receptacle, that power has been removed.

Line of Sight Disconnect

The Woodhead ArcArrest Switch-Rated Connector System is the local means of disconnect for industrial machinery as required by the NEC and OSHA.

Lockout Tagout

Lockout provisions in the plug and receptacle allow for fast and positive compliance with OSHA requirements for LOTO.

Arc Flash Protection

The Woodhead ArcArrest receptacle protects workers from arcing energy by maintaining a connection with the plug during connection or disconnection.



Woodhead ArcArrest

30A Switch-Rated Connector System



The Safest Connector – The Ideal Motor Disconnect

- UL 2682 power connector that is listed as a 30A branch circuit disconnect switch and motor circuit disconnect switch up to 10 HP.
- Upgrade existing twist-lock or pin and sleeve connectors to provide users the utmost in electrical safety. Even when operating under load, there is no exposure to live electrical components or arc flash.

ArcArrest Key Features and Benefits

Features and Benefits

Inclusion of options such as Max-Loc cord-grip technology, finger drawplates, lock-out holes and plug caps in a smooth, contoured design

- Reduces user costs and simplifies ordering
- Enhances cleanability in food-processing and other harsh environments
- Delivers enhanced durability for use in the toughest industrial application

All critical components are manufactured from engineered thermoplastics

- Delivers unmatched strength and complete UL material compliance
- Eliminates nylon components, commonly used by competitors, which are prone to moisture absorption and dimensional instability

Laser labelling

- Provides a clean and permanent record of certifications and specifications
- Greatly reduces the harboring of bacteria and dirt in the label versus an adhesive label
- Adhesive labels are susceptible to falling off

Spring-loaded, silver alloy contacts

- Provides the connector system with switching capabilities
- The UL test requires this live switching to occur 6,000 cycles. This proves the connector's ability to last for many years in a typical industrial application

Type 4X and IP69k rated

- Eliminates ingress of dust and water in a variety of harsh industrial environments
- Sealing is automatic when connected
- Achieves sealing while disengaged with closed receptacle lid and plug cap

Max-Loc cord grips integrated into handles

Markets and Applications

Food Processing

- Conveyors
- Process Equipment
- Pumps
- Packaging Machines



Data Center



Conveyors

General Industrial

- Conveyors
- Process Equipment
- Welding Receptacles
- Power Distribution



Food Processing Plant



Shipyard

Shipyards

- Power Distribution

Construction Sites

- Power Distribution

Data Centers

- Server Rack Power Supply



Woodhead ArcArrest 30A Switch-Rated Connector System

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Finger drawplates
molded into handles for
easy connector closure



Dead front shutter
protects users from
arc flash and contact
with live electrical
components



Laser labeling

Male plugs
come standard
with sealing cap

Mounting angle fits on any
standard FS/FD box

Sharp 70° angle
reduces footprint
and improves safety



70°

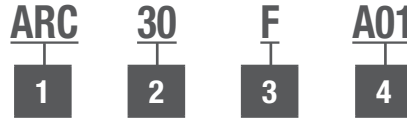
fast and positive lock-out/tag-out of machinery.*



Lock-out hole
in female
receptacle
designed
specifically
for 1/4"
lock shank
diameter

Woodhead ArcArrest

30A Switch-Rated Connector System Configurator



1 Product Family

ARC = ArcArrest

2 Current Rating

30A = Series 112219

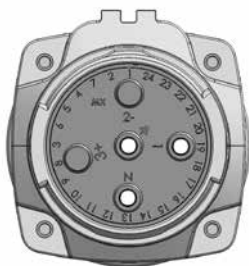
3 Configuration

- F** = Female Receptacle
- FHD** = Female Receptacle and Handle with Drawplate
- FH** = Female Receptacle and Handle without Drawplate
- FA** = Female Receptacle with 70° Angle
- M** = Male Inlet
- MHD** = Male Inlet with Cap and Handle with Drawplate
- MH** = Male Inlet with Cap and Handle without Drawplate
- MA** = Male Inlet with 70° Angle

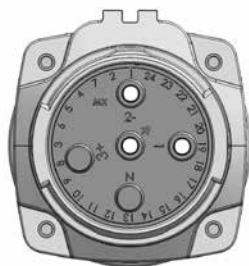
4 Voltage and Poles

	Voltage	Poles
A01	= 125	1P+N+G
B02	= 250	2P+G
B03	= 250	3P+G
AB04	= 125/250	2P+N+G
C02	= 208	2P+G
C03	= 208	3P+G
AC05	= 120/208	3P+N+G
D01	= 277	1P+N+G
E02	= 480	2P+G
E03	= 480	3P+G
DE05	= 277/480	3P+N+G
F02	= 600	2P+G
F03	= 600	3P+G
GF05	= 347/600	3P+N+G

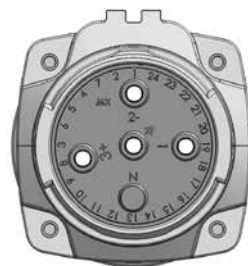
View of Pin Configurations on a Male Inlet



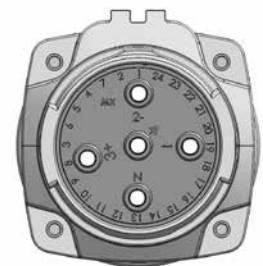
1P+N+G



2P+G



3P+G



3P+N+G

Woodhead ArcArrest

30A Switch-Rated Connector System



Specifications

REFERENCE INFORMATION

Packaging: Corrugated boxes
 UL File No.: E145922 and E145923
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

ELECTRICAL – UL 2682 SWITCH RATINGS

Voltage (max.): 600V
 Current (max.): 30A
 Branch Circuit Disconnect Rating (max.): 30A
 Motor Circuit Disconnect Rating (max.): 10 HP

PHYSICAL

Housing: PBT glass filled
 Insulators: PBT glass filled
 Contact: Silver alloy tips brazed to copper-alloy contact bases
 Operating Temperature: -25° to +60°C

ENVIRONMENTAL

NEMA Rating: Type 4X
 IEC Rating: IP69K



Ordering Information

Female Receptacle Only

Order Number	Engineering Number	Voltage	Pin Configuration	HP
1122190001	ARC30FA01	125	1P+N+G	1 HP
1122190002	ARC30FB02	250	2P+G	3 HP
1122190003	ARC30FB03	250	3P+G	5 HP
1122190004	ARC30FAB04	125/250	2P+N+G	N/A
1122190005	ARC30FC02	208	2P+G	N/A
1122190006	ARC30FC03	208	3P+G	5 HP
1122190007	ARC30FAC05	120/208	3P+N+G	N/A
1122190008	ARC30FD01	277	1P+N+G	N/A
1122190009	ARC30FE02	480	2P+G	N/A
1122190010	ARC30FE03	480	3P+G	10 HP
1122190011	ARC30FDE05	277/480	3P+N+G	N/A
1122190012	ARC30FF02	600	2P+G	N/A
1122190013	ARC30FF03	600	3P+G	N/A
1122190014	ARC30FGF05	347/600	3P+N+G	N/A



Connector with Handle and Finger Drawplates

Order Number	Engineering Number	Voltage	Pin Configuration	HP
1122190015	ARC30FHDA01	125	1P+N+G	1 HP
1122190016	ARC30FHDB02	250	2P+G	3 HP
1122190017	ARC30FHDB03	250	3P+G	5 HP
1122190018	ARC30FHDB04	125/250	2P+N+G	N/A
1122190019	ARC30FHDC02	208	2P+G	N/A
1122190020	ARC30FHDC03	208	3P+G	5 HP
1122190021	ARC30FHDC05	120/208	3P+N+G	N/A
1122190022	ARC30FHDD01	277	1P+N+G	N/A
1122190023	ARC30FHDE02	480	2P+G	N/A
1122190024	ARC30FHDE03	480	3P+G	10 HP
1122190025	ARC30FHDE05	277/480	3P+N+G	N/A
1122190026	ARC30FHDF02	600	2P+G	N/A
1122190027	ARC30FHDF03	600	3P+G	N/A
1122190028	ARC30FHDF05	347/600	3P+N+G	N/A



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Specifications

REFERENCE INFORMATION

Packaging: Corrugated boxes
 UL File No.: E145922 and E145923
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

ELECTRICAL – UL 2682 SWITCH RATINGS

Voltage (max.): 600V
 Current (max.): 30A
 Branch Circuit Disconnect Rating (max.): 30A
 Motor Circuit Disconnect Rating (max.): 10 HP

PHYSICAL

Housing: PBT glass filled
 Insulators: PBT glass filled
 Contact: Silver alloy tips brazed to copper-alloy contact bases
 Operating Temperature: -25° to +60°C

ENVIRONMENTAL

NEMA Rating: Type 4X
 IEC Rating: IP69K



Ordering Information

Female Receptacle with 70° FS/FD Box Angle

Order Number	Engineering Number	Voltage	Pin Configuration	HP
1122190043	ARC30FAA01	125	1P+N+G	1 HP
1122190044	ARC30FAB02	250	2P+G	3 HP
1122190045	ARC30FAB03	250	3P+G	5 HP
1122190046	ARC30FAAB04	125/250	2P+N+G	N/A
1122190047	ARC30FAC02	208	2P+G	N/A
1122190048	ARC30FAC03	208	3P+G	5 HP
1122190049	ARC30FAAC05	120/208	3P+N+G	N/A
1122190050	ARC30FAD01	277	1P+N+G	N/A
1122190051	ARC30FAE02	480	2P+G	N/A
1122190052	ARC30FAE03	480	3P+G	10 HP
1122190053	ARC30FADE05	277/480	3P+N+G	N/A
1122190054	ARC30FAF02	600	2P+G	N/A
1122190055	ARC30FAF03	600	3P+G	N/A
1122190056	ARC30FAGF05	347/600	3P+N+G	N/A



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Specifications

REFERENCE INFORMATION

Packaging: Corrugated boxes
 UL File No.: E145922 and E145923
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

ELECTRICAL – UL 2682 SWITCH RATINGS

Voltage (max.): 600V
 Current (max.): 30A
 Branch Circuit Disconnect Rating (max.): 30A
 Motor Circuit Disconnect Rating (max.): 10 HP

PHYSICAL

Housing: PBT glass filled
 Insulators: PBT glass filled
 Contact: Silver alloy tips brazed to copper-alloy contact bases
 Operating Temperature: -25° to +60°C

ENVIRONMENTAL

NEMA Rating: Type 4X
 IEC Rating: IP69K



Ordering Information

Male Inlet Only

Order Number	Engineering Number	Voltage	Pin Configuration	HP
1122191001	ARC30MA01	125	1P+N+G	1 HP
1122191002	ARC30MB02	250	2P+G	3 HP
1122191003	ARC30MB03	250	3P+G	5 HP
1122191004	ARC30MAB04	125/250	2P+N+G	N/A
1122191005	ARC30MC02	208	2P+G	N/A
1122191006	ARC30MC03	208	3P+G	5 HP
1122191007	ARC30MAC05	120/208	3P+N+G	N/A
1122191008	ARC30MD01	277	1P+N+G	N/A
1122191009	ARC30ME02	480	2P+G	N/A
1122191010	ARC30ME03	480	3P+G	10 HP
1122191011	ARC30MDE05	277/480	3P+N+G	N/A
1122191012	ARC30MF02	600	2P+G	N/A
1122191013	ARC30MF03	600	3P+G	N/A
1122191014	ARC30MGF05	347/600	3P+N+G	N/A



Plug with Handle, Finger Drawplates and Plug Cap

Order Number	Engineering Number	Voltage	Pin Configuration	HP
1122191015	ARC30MHDA01	125	1P+N+G	1 HP
1122191016	ARC30MHDB02	250	2P+G	3 HP
1122191017	ARC30MHDB03	250	3P+G	5 HP
1122191018	ARC30MHDA04	125/250	2P+N+G	N/A
1122191019	ARC30MHDC02	208	2P+G	N/A
1122191020	ARC30MHDC03	208	3P+G	5 HP
1122191021	ARC30MHDAC05	120/208	3P+N+G	N/A
1122191022	ARC30MHDD01	277	1P+N+G	N/A
1122191023	ARC30MHDE02	480	2P+G	N/A
1122191024	ARC30MHDE03	480	3P+G	10 HP
1122191025	ARC30MHDE05	277/480	3P+N+G	N/A
1122191026	ARC30MHDF02	600	2P+G	N/A
1122191027	ARC30MHDF03	600	3P+G	N/A
1122191028	ARC30MHDF05	347/600	3P+N+G	N/A



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Accessories



Specifications

REFERENCE INFORMATION

Packaging: Poly bag
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes

PHYSICAL

Housing: PBT glass filled
 Operating Temperature: -25° to +60°C
 Cable Range: 0.56" to 1.00"

Ordering Information

Handle and Finger Drawplates* – Accepts Female Receptacle or Male Inlet

Order Number	Engineering Number	Voltage	Pin Configuration
1122196001	N/A	N/A	N/A

* Handle without finger drawplates available upon request.



70° FS/FD Box Angle – Accepts Female Receptacle or Male Inlet

Order Number	Engineering Number	Voltage	Pin Configuration
1122196002	N/A	N/A	N/A



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Accessories



Specifications

REFERENCE INFORMATION

FD Box
Packaging: Individual box
cULus File No.: E117594

FD Box—Wet Location
UL File No.: E117594
CSA File No.: LR32159

PHYSICAL

FD Box
Box Housing/Reducers/Plugs: Rigid polyvinyl chloride (PVC)
Frame: Polybutylene terephthalate (PBT)
Gasket: Santoprene TPV
Threaded Inserts: Brass
Mounting Plate: Stainless Steel

Grounding Wire (Green): 12 AWG, stranded Copper, 0.203m (8") long
FD Box—Wet Location
Box Volume: 17.3 in.³
Mesh Strain Relief
Form Size: F4 1"
Grip Body and Compression Nut: Nylon
Collar and Mesh: Nylon or Stainless Steel

ENVIRONMENTAL

FD Box
Operating Temperature: -29° to +60°C
Enclosure Rating: NEMA 4, 4X, 12P, IEC IP66
FD Box—Wet Location
Rating: Wet industrial duty
Mesh Strain Relief
Rating: Watertite

Ordering Information

FD Box

Order Number	Engineering Number	Color	Gang Configuration	Capacity
130128-0150	455-FD1	Yellow	Single	426.06cm ³ (26.0 in. ³)
130128-0151	455-FD2		Two	1,102.85cm ³ (67.3 in. ³)
130128-0152	455-FD3		Three	1,787.83cm ³ (109.1 in. ³)
130128-0160	455-FD1BLK	Black	Single	426.06cm ³ (26.0 in. ³)
130128-0161	455-FD2BLK		Two	1,102.85cm ³ (67.3 in. ³)
130128-0162	455-FD3BLK		Three	1,787.83cm ³ (109.1 in. ³)



FD Box—Wet Location

Order Number	Engineering Number	Color	Thread Diameter	Knock-Out Openings
130128-0114	452CR	Yellow	½"	2
130128-0116	453CR		¾"	2
130128-0119	454CR		1"	2



Non-Metallic Mesh Strain Relief, F4

Order Number	Engineering Number	Cable Diameter
130099-0178	5636NM	14.22–17.27mm (.560–.680")
130099-0180	5637NM	15.88–19.05mm (.625–.750")
130099-0182	5638NM	19.05–22.23mm (.750–.875")
130099-0184	5639NM	22.23–25.40mm (.875–1.00")



Metallic Mesh Strain Relief, F4

Order Number	Engineering Number	Cable Diameter
130099-0177	5636M	14.22–17.27mm (.560–.680")
130099-0179	5637M	15.88–19.05mm (.625–.750")
130099-0181	5638M	19.05–22.23mm (.750–.875")
130099-0188	5646M	20.57–23.88mm (.810–.940")
130099-0183	5639M	22.23–25.40mm (.875–1.00")



Get customized insights at: www.molex.com/link/arcarrest.html

molex

one company › a world of innovation

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