

ARMORSTART POWER MEDIA SYSTEM QUICK REFERENCE GUIDE COLLECTION :

Single page documents providing comprehensive system examples of the cable assemblies for ArmorStart, ArmorStart ST, ArmorStart LT, and Special Configuration distributed motor controllers. Complete with diagrams and references to find more information.

- ArmorStart® Motor Control
- ArmorStart® ST Motor Control
- ArmorStart® LT Motor Control
- EtherNet/IP™ Network
- ArmorConnect® 3-Phase Power
- Auxiliary Network ArmorStart
- Summary of Connector and Pinout by ArmorStart Product



ARMORSTART



ARMORSTART ST



ARMORSTART "SPECIAL", G VERSION



ARMORSTART LT



ARMORCONNECT

ArmorStart and ArmorStart ST distributed motor controls provide solutions for light and heavy industrial needs ranging from the food and beverage to the automotive industry

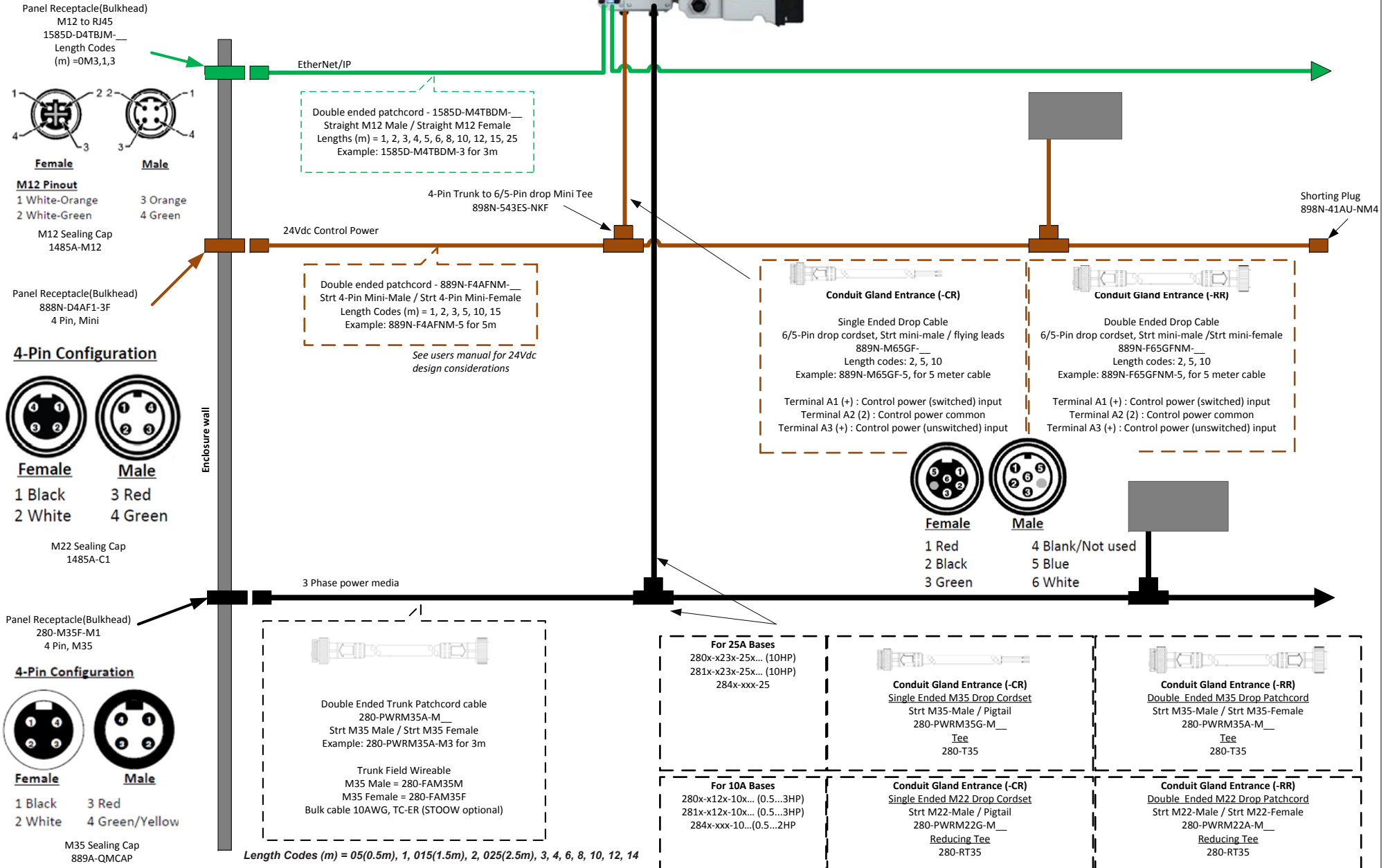


ArmorStart media selection support Guide
Applies to the following Catalog Numbers

28_E-F**-CR*.***
28_E-F**-RR*.***

ArmorStart System Quick Reference Guide

EtherNet/IP Communication
 Refer to publication 280-CL002 for more detail
 User manual 280E-UM001C



Tamper Resistant M22 Locking Clip—280-MTR22-LC
Tamper Resistant M35 Locking Clip—280-MTR35-LC

Length Codes (m) = 05(0.5m), 1, 015(1.5m), 2, 025(2.5m), 3, 4, 6, 8, 10, 12, 14

ArmorStart media selection support Guide
Applies to the following Catalog Numbers
28_E-F**-CR*_*_***
28_E-F**-RR*_*_***

ArmorStart System Quick Reference Guide
EtherNet/IP Communication
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User manual 280E-UM001C

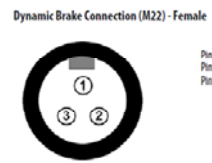
Valid for 284 version only

<p>Option [-DB], 380-480Vac Input Power</p> <p>0.37kW(0.5HP) Recommended Catalog AK-R2-360P500, 360ohm</p> <p>0.75kW(1.0HP) Recommended Catalog AK-R2-360P500, 360ohm</p> <p>1.5kW(2.0HP) Recommended Catalog AK-R2-360P500, 360ohm</p> <p>2.2kW(3HP) Recommended Catalog AK-R2-120P1K2, 120ohm</p> <p>3.3kW(5HP) Recommended Catalog AK-R2-120P1K2, 120ohm</p>	<p>Option [-DB1], 380-480Vac Input Power</p> <p>0.37kW(0.5HP) Required Catalog 284R-360P500-M_ , 360ohm</p> <p>0.75kW(1.0HP) Required Catalog 284R-360P500-M_ , 360ohm</p> <p>1.5kW(2.0HP) Required Catalog 284R-360P500-M_ , 360ohm</p> <p>2.2kW(3HP) Required Catalog 284R-120P1K2-M_ , 120ohm</p> <p>3.3kW(5HP) Required Catalog 284R-120P1K2-M_ , 120ohm</p>
<p>Ordered Connecting cable, 3 meters length</p> <p>Single ended male/flying leads</p> <p>Catalog 285-DBK22-M3</p>	<p>Attached Cable Length code(m): 05,1</p> <p>Example 284R-360P500-M1</p>

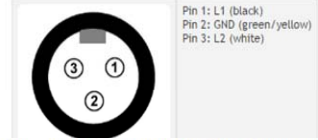
M22 Sealing Cap when no cable/resistor used
1485A-C1



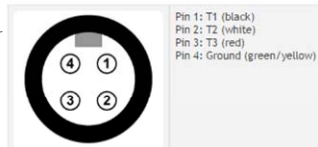
Resistor cable



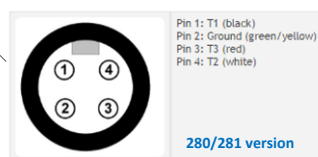
Receptacle Connections for Source or Control Brake Connector (M25)



Receptacle Connections for Motor Connector (M22)

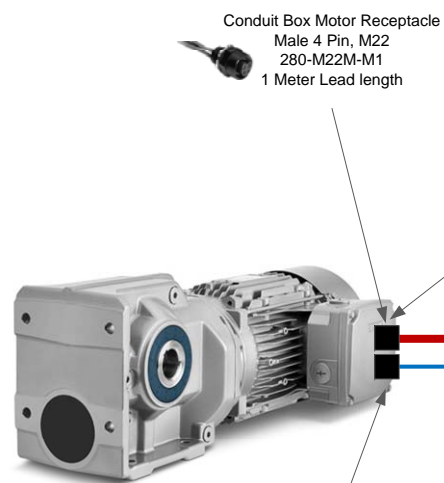


Receptacle Connections for Motor Connector - 10 Hp (M35)



Valid for 284 version only

<p>Single Ended M25</p> <p>Right Angle 3 Pin Male/flying leads</p> <p>285-BRC25-M_</p> <p>Example: 285-BRC25-M3 for 3m</p>	<p>Double Ended M25</p> <p>Right Angle 3 Pin Male/Strt Female</p> <p>285-BRC25-M_D</p> <p>Example: 285-BRC25-M3D for 3m</p>
<p>M25 Sealing Cap when no cable used</p> <p>280-BRCAP-M25</p>	



Motor cable

Electromechanical Brake cable

<p>M22 ArmorStart Motor Connector</p> <p>When 280/281E — 0.5-3HP</p> <p>When 284E — 0.5-5HP</p>	<p>Single Ended Motor Cordset</p> <p>Right Angle M22 Male / Pigtail</p> <p>280-MTR22-M_</p> <p>Single Ended Shielded Motor Cordset</p> <p>Right Angle M22 Male / Pigtail</p> <p>284-MTRS22-M_</p> <p>Field Wireable Female Mating Connector</p> <p>280-FAM22F</p>	<p>Double Ended Motor Patch Cable</p> <p>Right Angle M22 Male / Strt Female</p> <p>280-MTR22-M_D</p> <p>Double Ended Shielded Motor Patch Cable</p> <p>Right Angle M22 Male / Strt Female</p> <p>284-MTRS22-M1D , 1 meter</p> <p>284-MTRS22-M3D , 3 meter</p> <p>See also ArmorConnector, example 280-PWRM22C-M_</p>
<p>M35 ArmorStart Motor Connector</p> <p>When 280/281E — 10HP</p>	<p>Single Ended Motor Cordset</p> <p>Right Angle M35 Male / Pigtail</p> <p>280-MTR35-M_</p> <p>Field Wireable Female Mating Connector</p> <p>280-FAM35F</p>	<p>Double Ended Motor Patch Cable</p> <p>Right Angle M35 Male / Strt Female</p> <p>280-MTR35-M1D , 1 meter</p> <p>280-MTR35-M3D , 3 meter</p> <p>See also ArmorConnector, example 280-PWRM35C-M_</p>

Length Codes (m) = 1,3,4,6,8,10,12,14,20

Tamper Resistant M22 Locking Clip—280-MTR22-LC
 Tamper Resistant M35 Locking Clip—280-MTR35-LC

ArmorStart ST media selection support Guide
Applies to the following Catalog Numbers
28_E-F**-RRG*-***

ArmorStart ST System Quick Reference Guide
 Refer to publication 280ES-CL001 for more detail
 User manual 280ES-UM001



Panel Receptacle(Bulkhead)
 M12 to RJ45
 1585D-D4TBJM-__
 Length Codes
 (m) =0M3,1,3

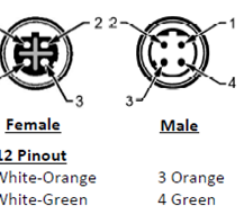
EtherNet/IP

Double ended patchcord - 1585D-M4TBDM-__
 Straight M12 Male / Straight M12 Female
 Lengths (m) = 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 25
 Example: 1585D-M4TBDM-3 for 3m

24Vdc Control Power

Double ended patchcord - 889N-F4AFNM-__
 Strt 4-Pin Mini-Male / Strt 4-Pin Mini-Female
 Length Codes (m) = 1, 2, 3, 5, 10, 15
 Example: 889N-F4AFNM-5 for 5m
 See users manual for 24Vdc design considerations

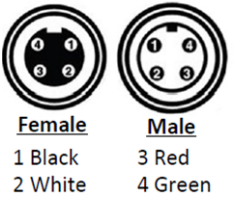
4-Pin Trunk to 4-Pin drop Mini Tee
 898N-D43PB-N4KT



M12 Sealing Cap
 1485A-M12

Panel Receptacle(Bulkhead)
 888N-D4AF1-3F
 4 Pin, Mini

4-Pin Configuration



M22 Sealing Cap
 1485A-C1

Enclosure wall

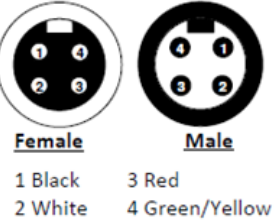
3 Phase power media

Double Ended Trunk Patchcord cable
 280-PWRM35A-M-__
 Strt M35 Male / Strt M35 Female
 Example: 280-PWRM35A-M3 for 3m
 Trunk Field Wireable
 M35 Male = 280-FAM35M
 M35 Female = 280-FAM35F
 Bulk cable 10AWG, TC-ER (STOOW optional)

M35 Trunk to M35 Drop Tee
 280-T35

Panel Receptacle(Bulkhead)
 280-M35F-M1
 4 Pin, M35

4-Pin Configuration



M35 Sealing Cap
 889A-QMCAP

Length Codes (m) = 05(0.5m), 1, 015(1.5m), 2, 025(2.5m), 3, 4, 6, 8, 10, 12, 14

Tamper Resistant M22 Locking Clip—280-MTR22-LC
 Tamper Resistant M35 Locking Clip—280-MTR35-LC

ArmorStart ST media selection support Guide
Applies to the following Catalog Numbers
28_E-F**-RRG*._****

ArmorStart ST System Quick Reference Guide
Refer to publication 280ES-CL001 for more detail
User manual 280ES-UM001

Valid for 284 version only

[-DB1], 380-480Vac Input Power
 0.37kW(0.5HP) Required Catalog 284R-360P500-M_ 360ohm
 0.75kW(1.0HP) Required Catalog 284R-360P500-M_ 360ohm
 1.5kW(2.0HP) Required Catalog 284R-360P500-M_ 360ohm
 2.2kW(3HP) Required Catalog 284R-120P1K2-M_ 120ohm
 3.3kW(5HP) Required Catalog 284R-120P1K2-M_ 120ohm

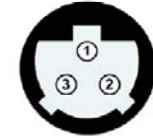
Attached Cable Length code(m): 05,1
 Example 284R-360P500-M1

M22 Sealing Cap when no cable/resistor used
 1485A-C1

Dynamic Brake Resistor



EM Brake Contactor Connector (M22) - Female



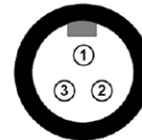
Pin 1 - Ground (green/yellow)
 Pin 2 - B1 (black)
 Pin 3 - B2 (white)

Motor Connector Pinout (M29) - Female



Pin 1 - T1 (black)
 Pin 2 - T2 (white)
 Pin 3 - T3 (red)
 Pin 4 - Ground (green/yellow)

Dynamic Brake Connection (M22) - Female

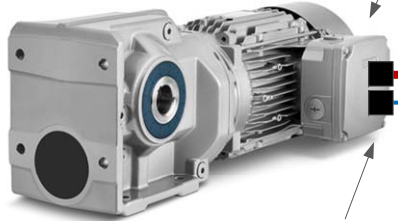


Pin 1 - Ground (green/yellow)
 Pin 2 - BR+ (black)
 Pin 3 - BR- (white)

Conduit Box Motor Receptacle
 Male 4 Pin, M29, Alt Key
 284-M29M-M03
 0.3 Meter Lead length



Conduit Box EM Brake Receptacle
 Male 3 Pin, M22, Alt Key
 285-M24M-M05
 0.5 Meter Lead length



Motor cable

Electromechanical Brake cable

Valid for 284 version only

Single Ended M22, Alt Key
 Strt 3 Pin Male/Strt Female
 285-BRC22-M_
 Example: 285-BRC22-M3 for 3m

Double Ended M22, Alt Key
 Strt 3 Pin Male/Strt Female
 285-BRC22-M_
 Example: 285-BRC22-M3D for 3m

M22 Sealing Cap when no cable used
 1485A-C1

Length Codes (m) = 1,3,6,8,10,12,14

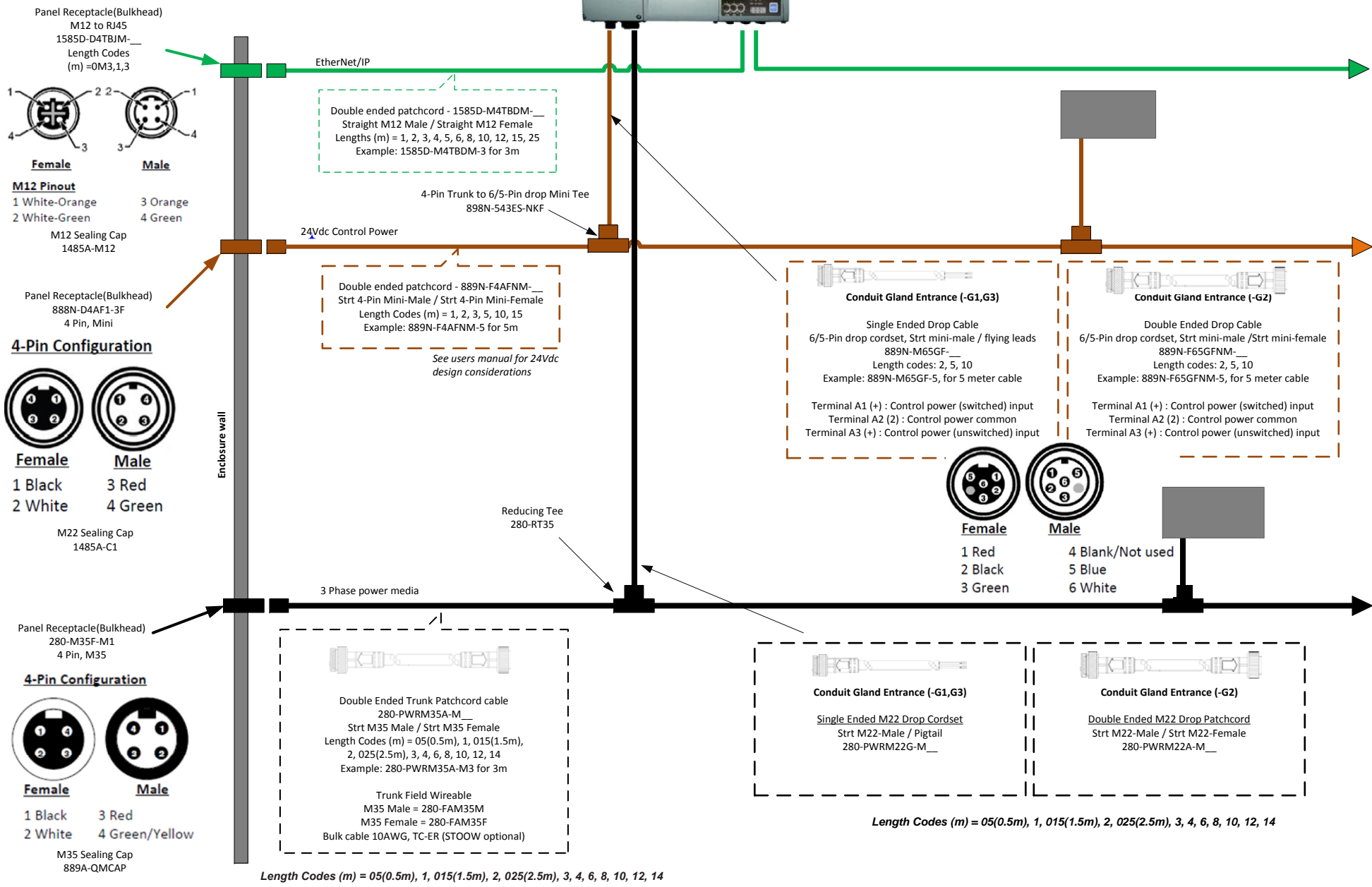
Single Ended M29 Motor Cordset
 Strt Male / Pigtail
 280-PWRM29G-M_
 Single Ended M29 Shielded Motor Cordset
 Strt Male / Pigtail
 284-PWRM29G-M_

Double Ended M29 Motor Patch Cable
 Strt Male / Strt Female
 280-PWRM29A-M_
 Double Ended M29 Shielded Motor Patch Cable
 Strt Male / Strt Female
 284-PWRM29A-M_

Length Codes (m) = 1,3,6,8,10,12,14

ArmorStart LT media selection support Guide
Applies to the following Catalog Numbers
29_E-F**-G1-***
29_E-F**-G2-***
29_E-F**-G3-***

ArmorStart LT System Quick Reference Guide
EtherNet/IP Communication
Refer to publication 280-CL002 for more detail
User manual 290E-UM001



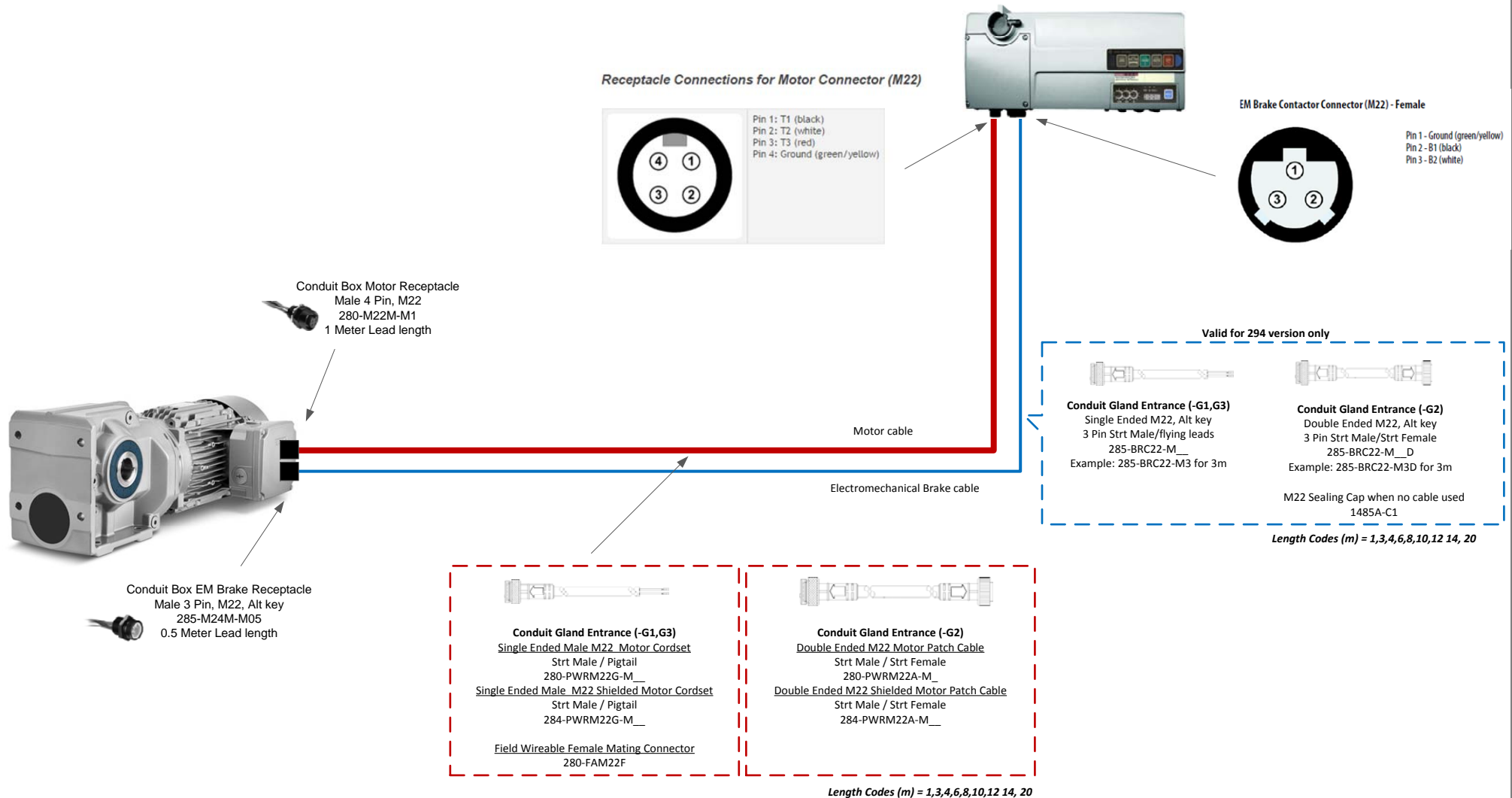
Tamper Resistant M22 Locking Clip—280-MTR22-LC
Tamper Resistant M35 Locking Clip—280-MTR35-LC

ArmorStart LT media selection support Guide
Applies to the following Catalog Numbers

- 29_E-F****-G1-*
- 29_E-F****-G2-*
- 29_E-F****-G3-*

ArmorStart LT System Quick Reference Guide

EtherNet/IP Communication
 Refer to publication 280-CL002 for more detail
 User manual 290E-UM001



ArmorStart media selection support Guide
Applies to the following Catalog Numbers
28_G-F**-RRG*_***

ArmorStart System Quick Reference Guide
Application/Customer Specific
DeviceNet Communication
User manual 280G-UM001

Panel Receptacle(Bulkhead)
 DeviceNet Female
 1485F-P1N5-A



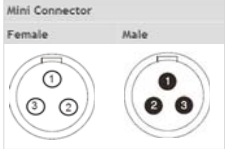
Mini Connector

Female Male

1 Drain 4 White (CAN_H)
 2 Red (V+) 5 Blue (CAN_L)
 3 Black (V-)

M22 Sealing Cap
 1485A-C_

Panel Receptacle(Bulkhead)
 Female
 888N-F3AFA1-1F

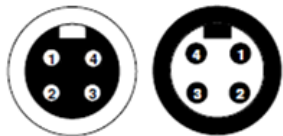


Pin 1: GND - Green/Yellow
 Pin 2: L1 - Black
 Pin 3: L2 - White

M22 Sealing Cap
 1485A-C_

Panel Receptacle(Bulkhead)
 280-M35F-M1
 4 Pin, M35

4-Pin Configuration



Female Male

1 Black 3 Red
 2 White 4 Green/Yellow

M35 Sealing Cap
 889A-QMCAP

DeviceNet

Double ended patchcord – 1485_P_
 Straight mini Male / Straight mini Female
 Lengths (m) = 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 25
 Example: 1485C-P1N5-M5 for 1m

5-Pin Trunk to 5-Pin drop Mini Tee
 1485P-P1N5-MN5KF

3-Pin Trunk to 3-Pin drop Mini Tee
 898N-33PB-N4KF

120Vdc Control Power

Double ended patchcord - 889N-F3AFNU-_
 Strt 4-Pin Mini-Male / Strt 4-Pin Mini-Female
 Length Codes (m) = 1, 2, 3, 5, 10, 15
 Example: 889N-F3AFNU-6F for 6m

M35 Trunk to M35 Drop Tee
 280-T35

3 Phase power media

Double Ended Trunk Patchcord cable
 280-PWRM35A-M_
 Strt M35 Male / Strt M35 Female
 Example: 280-PWRM35A-M3 for 3m

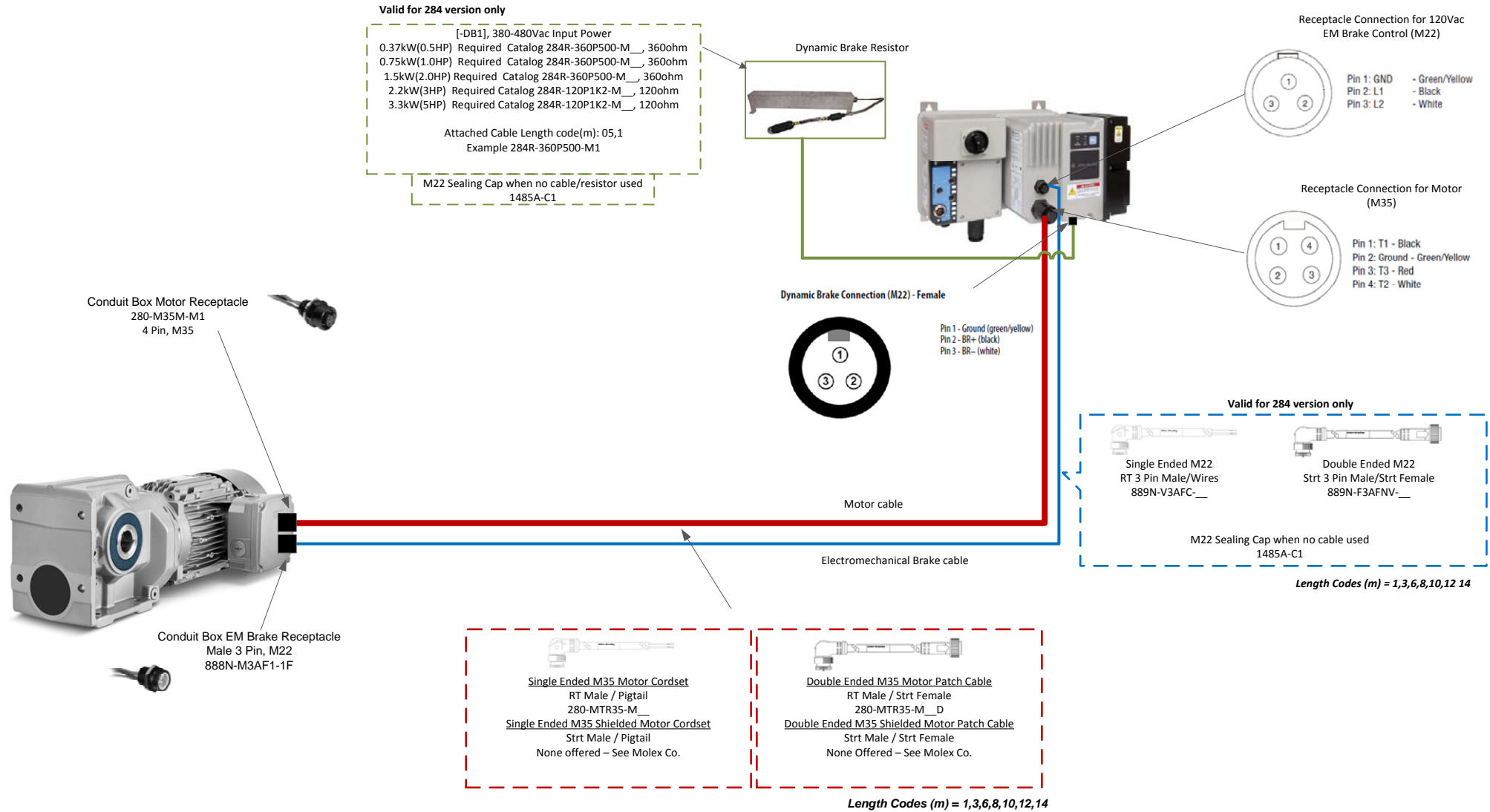
Trunk Field Wireable
 M35 Male = 280-FAM35M
 M35 Female = 280-FAM35F
 Bulk cable 10AWG, TC-ER (STOOW optional)

Length Codes (m) = 05(0.5m), 1, 015(1.5m), 2, 025(2.5m), 3, 4, 6, 8, 10, 12, 14

Tamper Resistant M22 Locking Clip—280-MTR22-LC
 Tamper Resistant M35 Locking Clip—280-MTR35-LC

ArmorStart media selection support Guide
Applies to the following Catalog Numbers
28_G-F**-RRG*_***





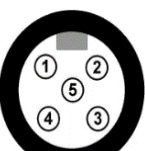



ArmorStart System Quick Reference Guide
Application/Customer Specific
DeviceNet Communication
User manual 280G-UM001



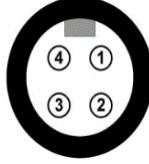

ArmorStart Ethernet Connector and Pinout Summary

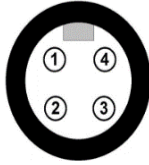

ArmorStart media connector guide
 Applies to the following Catalog Numbers



 28_E-F****-RR*..**

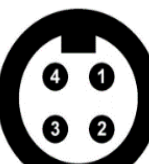

Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Ethernet		12 mm	Female	Pin 1: Tx Data + (white/orange)	Bulletin 1585D, Ethernet Cable	
				Pin 2: Rcv Data + (white/green)		
				Pin 3: Tx Data - (orange)		
				Pin 4: Rcv Data - (green)		
Input		12 mm	Female	Pin 1: +24V (sourced from A3)	Bulletin 889D, IO Cable	
				Pin 2: Input 1,3	Bulletin 879D, V-Cable accessory	
				Pin 3: Common		
				Pin 4: Input 0,2		
				Pin 5: NC (no connection)		
Output		12 mm	Female	Pin 1: NC (no connection)	Bulletin 889D, IO Cable	
				Pin 2: NC (no connection)		
				Pin 3: Common		
				Pin 4: Output +24V DC (source from A1)		
				Pin 5: NC (no connection)		
Control		22 mm	Male	Pin 1: Unswitched (A3)(red)	Catalog 889N-_65G*	
				Pin 2: Common (A2)(black)		
				Pin 3: PE (green)		
				Pin 4: Not used (blank)		
				Pin 5: Switched (A1)(blue)		
				Pin 6: Not used (white)		

ArmorStart Ethernet Connector and Pinout Summary

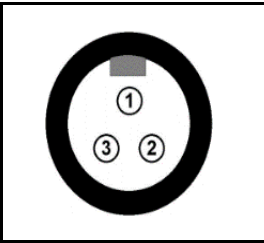

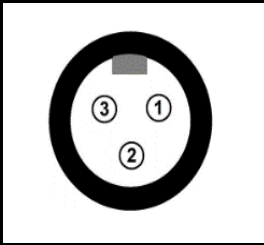

Motor		22 mm	Female	Pin 1: T1 (black)	Catalog 280-MTR22*	
1/2 to 2HP (284)				Pin 2: T2 (white)	Catalog 284-MTRS22* (shielded)	
1/2 to 3HP (280/1)				Pin 3: T3 (red)		
				Pin 4: Ground (green/yellow)		

Motor		35 mm	Female	Pin 1: T1 (black)	Catalog 280-MTR35*	
10HP (280/1)				Pin 2: Ground (green/yellow)		
				Pin 3: T3 (red)		
				Pin 4: T2 (white)		

3 Phase Input		22 mm	Male	Pin 1: L1 (black)	Catalog 280-PWRM22_-M*	
280x-x12x-10x... (0.5...3HP)				Pin 2: L2 (white)		
281x-x12x-10x... (0.5...3HP)				Pin 3: L3 (red)		
284x-xxx-10...(0.5...2HP)				Pin 4: Ground (green/yellow)		



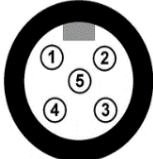

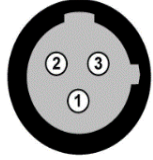



3 Phase Input		35 mm	Male	Pin 1: L1 (black)	Catalog 280-PWRM35_-M*	
280x-x23x-25x... (10HP)				Pin 2: Ground (green/yellow)		
281x-x23x-25x... (10HP)				Pin 3: L3 (red)		
284x-xxx-25				Pin 4: L2 (white)		

ArmorStart Ethernet Connector and Pinout Summary

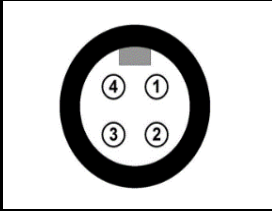

Dynamic Brake		22 mm	Female	Pin 1: GND (green/yellow)	[-DB option]	
				Pin 2: BR+ (black)	Catalog 285-DBK22-M3	
Em Brake		25 mm	Female	Pin 1: L1 (black)	Catalog 285-BRC25-M*	
				Pin 2: GND (green/yellow)		
				Pin 3: L2 (white)		

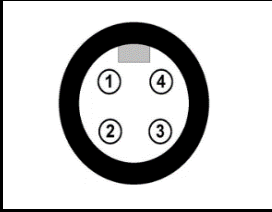

ArmorStart DeviceNet Connector and Pinout Summary

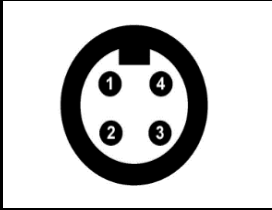

ArmorStart media connector guide
 Applies to the following Catalog Numbers
 28_D-F****-RR*.*

Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Devicenet		23 mm	Male	Pin 1: Drain (no connection)	Bulletin 1485C, Trunk/drop cable	
				Pin 2: +VDNET		
				Pin 3: -VDNET		
				Pin 4: CAN_H		
				Pin 5: CAN_L		
Input		12 mm	Female	Pin 1: +24V (sourced from A3)	Bulletin 889D, IO Cable	
				Pin 2: Input 1,3	Bulletin 879D, V-Cable accessory	
				Pin 3: Common		
				Pin 4: Input 0,2		
				Pin 5: NC (no connection)		
Output		12 mm	Female	Pin 1: PE	Bulletin 889R, AC Output Cable	
				Pin 2: Return		
				Pin 3: Relay out		
Control		22 mm	Male	Pin 1: Unswitched (A3)(red)	Catalog 889N- _65G*	
				Pin 2: Common (A2)(black)		
				Pin 3: PE (green)		
				Pin 4: Not used (blank)		
				Pin 5: Switched (A1)(blue)		
				Pin 6: Not used (white)		

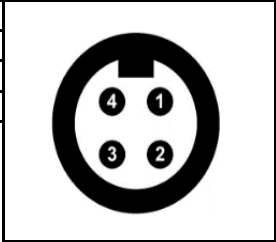

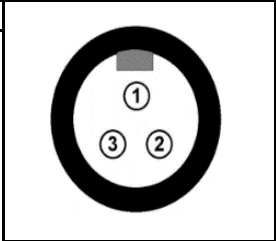

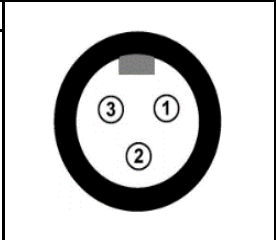

ArmorStart DeviceNet Connector and Pinout Summary

Motor		22 mm	Female	Pin 1: T1 (black)	Catalog 280-MTR22*	
1/2 to 2HP (284)				Pin 2: T2 (white)	Catalog 284-MTRS22* (shielded)	
1/2 to 3HP (280/1)				Pin 3: T3 (red) Pin 4: Ground (green/yellow)		

Motor		35 mm	Female	Pin 1: T1 (black)	Catalog 280-MTR35*	
10HP (280/1)				Pin 2: Ground (green/yellow)		
				Pin 3: T3 (red) Pin 4: T2 (white)		









3 Phase Input		22 mm	Male	Pin 1: L1 (black)	Catalog 280-PWRM22_-M*	
280x-x12x-10x... (0.5...3HP)				Pin 2: L2 (white)		
281x-x12x-10x... (0.5...3HP)				Pin 3: L3 (red) Pin 4: Ground (green/yellow)		

ArmorStart DeviceNet Connector and Pinout Summary

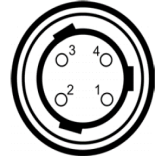



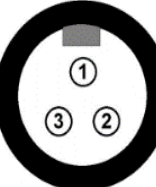



<p>3 Phase Input</p> <p>280x-x23x-25x... (10HP)</p> <p>281x-x23x-25x... (10HP)</p> <p>284x-xxx-25</p>		<p>35 mm</p>	<p>Male</p>	<p>Pin 1: L1 (black)</p> <p>Pin 2: Ground (green/yellow)</p> <p>Pin 3: L3 (red)</p> <p>Pin 4: L2 (white)</p>	<p>Catalog 280-PWRM35_-M*</p>	
<p>Dynamic Brake</p>		<p>22 mm</p>	<p>Female</p>	<p>Pin 1: GND (green/yellow)</p> <p>Pin 2: BR+ (black)</p> <p>Pin 3: BR- (white)</p>	<p>[-DB option]</p> <p>Catalog 285-DBK22-M3</p>	
<p>Em Brake</p>		<p>25 mm</p>	<p>Female</p>	<p>Pin 1: L1 (black)</p> <p>Pin 2: GND (green/yellow)</p> <p>Pin 3: L2 (white)</p>	<p>Catalog 285-BRC25-M*</p>	

ArmorStart ST Connector and Pinout Summary

ArmorStart ST media connector guide
 Applies to the following Catalog Numbers
 28_E-F****-RRG*.-**





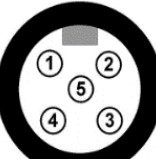

Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Ethernet		12 mm	Female	Pin 1: Tx Data + (white/orange) Pin 2: Rcv Data + (white/green) Pin 3: Tx Data - (orange) Pin 4: Rcv Data - (green)	Bulletin 1585D, Ethernet Cable	
Input		12 mm	Female	Pin 1: +24V (sourced from A3) Pin 2: Input 1,3 Pin 3: Common Pin 4: Input 0,2 Pin 5: NC (no connection)	Bulletin 889D, IO Cable Bulletin 879D, V-Cable accessory	
Output		12 mm	Female	Pin 1: NC (no connection) Pin 2: NC (no connection) Pin 3: Common Pin 4: Output +24V DC (source from A1) Pin 5: NC (no connection)	Bulletin 889D, IO Cable	
Control		22 mm	Male	Pin 1 - 24V DC switched (brown) Pin 2 - 24V DC unswitched (white) Pin 3 - Common unswitched (blue) Pin 4 - Common switched (blue)	Catalog 889N-F4*	

ArmorStart ST Connector and Pinout Summary









Motor		29 mm	Female	Pin 1 - T1 (black) Pin 2 - T2 (white) Pin 3 - T3 (red) Pin 4 - Ground (green/yellow)	Catalog 280-PWRM29A-M* Catalog 284-PWRM29A-M* (shielded)	
3 Phase Input		35 mm	Male	Pin 1: L1 (black) Pin 2: Ground (green/yellow) Pin 3: L3 (red) Pin 4: L2 (white)	Catalog 280-PWRM35A-M*	
Dynamic Brake		22 mm	Female	Pin 1: GND (green/yellow) Pin 2: BR+ (black) Pin 3: BR- (white)	[-DB option] Catalog 285-DBK22-M3	
Em Brake		22 mm	Female	Pin 1 - Ground (green/yellow) Pin 2 - B1 (black) Pin 3 - B2 (white)	Catalog 285-BRC22-M*	

ArmorStart LT Ethernet Connector and Pinout Summary

Applies to the following Catalog Numbers
29_E-F****-G2-*

Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Ethernet		12 mm	Female	Pin 1: Tx Data + (white/orange) Pin 2: Rcv Data + (white/green) Pin 3: Tx Data - (orange) Pin 4: Rcv Data - (green)	Bulletin 1585D, Ethernet Cable	
Input		12 mm	Female	Pin 1: +24V (sourced from A3) Pin 2: Input 1,3 Pin 3: Common Pin 4: Input 0,2 Pin 5: NC (no connection)	Bulletin 889D, IO Cable Bulletin 879D, V-Cable accessory	
Output		12 mm	Female	Pin 1: NC (no connection) Pin 2: NC (no connection) Pin 3: Common Pin 4: Output +24V DC (source from A1) Pin 5: NC (no connection)	Bulletin 889D, IO Cable	







ArmorStart LT Ethernet Connector and Pinout Summary

Control		22 mm	Male	<table border="1"> <tr><td>Pin 1: Unswitched (A3)(red)</td></tr> <tr><td>Pin 2: Common (A2)(black)</td></tr> <tr><td>Pin 3: PE (green)</td></tr> <tr><td>Pin 4: Not used (blank)</td></tr> <tr><td>Pin 5: Switched (A1)(blue)</td></tr> <tr><td>Pin 6: Not used (white)</td></tr> </table>	Pin 1: Unswitched (A3)(red)	Pin 2: Common (A2)(black)	Pin 3: PE (green)	Pin 4: Not used (blank)	Pin 5: Switched (A1)(blue)	Pin 6: Not used (white)	Catalog 889N-_65G*	
Pin 1: Unswitched (A3)(red)												
Pin 2: Common (A2)(black)												
Pin 3: PE (green)												
Pin 4: Not used (blank)												
Pin 5: Switched (A1)(blue)												
Pin 6: Not used (white)												
Motor		22 mm	Female	<table border="1"> <tr><td>Pin 1: T1 (black)</td></tr> <tr><td>Pin 2: T2 (white)</td></tr> <tr><td>Pin 3: T3 (red)</td></tr> <tr><td>Pin 4: Ground (green/yellow)</td></tr> </table>	Pin 1: T1 (black)	Pin 2: T2 (white)	Pin 3: T3 (red)	Pin 4: Ground (green/yellow)	Catalog 280-PWRM22* Catalog 284-PWRM22* (shielded)			
Pin 1: T1 (black)												
Pin 2: T2 (white)												
Pin 3: T3 (red)												
Pin 4: Ground (green/yellow)												
3 Phase Input		22 mm	Male	<table border="1"> <tr><td>Pin 1: L1 (black)</td></tr> <tr><td>Pin 2: L2 (white)</td></tr> <tr><td>Pin 3: L3 (red)</td></tr> <tr><td>Pin 4: Ground (green/yellow)</td></tr> </table>	Pin 1: L1 (black)	Pin 2: L2 (white)	Pin 3: L3 (red)	Pin 4: Ground (green/yellow)	Catalog 280-PWRM22_-M*			
Pin 1: L1 (black)												
Pin 2: L2 (white)												
Pin 3: L3 (red)												
Pin 4: Ground (green/yellow)												
Em Brake		22 mm	Female	<table border="1"> <tr><td>Pin 1 - Ground (green/yellow)</td></tr> <tr><td>Pin 2 - B1 (black)</td></tr> <tr><td>Pin 3 - B2 (white)</td></tr> </table>	Pin 1 - Ground (green/yellow)	Pin 2 - B1 (black)	Pin 3 - B2 (white)	Catalog 285-BRC22-M*				
Pin 1 - Ground (green/yellow)												
Pin 2 - B1 (black)												
Pin 3 - B2 (white)												



ArmorStart LT DeviceNet Connector and Pinout Summary



ArmorStart LT media connector guide
Applies to the following Catalog Numbers

29_D-F**-G2-***





Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Devicenet		12 mm	Female	Pin 1: Drain (no connection)	Bulletin 1485C, Trunk/drop cable	
				Pin 2: +VDNET		
				Pin 3: -VDNET		
				Pin 4: CAN_H		
				Pin 5: CAN_L		
Input		12 mm	Female	Pin 1: +24V (sourced from A3)	Bulletin 889D, IO Cable	
				Pin 2: Input 1,3	Bulletin 879D, V-Cable accessory	
				Pin 3: Common		
				Pin 4: Input 0,2		
				Pin 5: NC (no connection)		
Output		12 mm	Female	Pin 1: NC (no connection)	Bulletin 889D, IO Cable	
				Pin 2: NC (no connection)		
				Pin 3: Common		
				Pin 4: Output +24V DC (source from A1)		
				Pin 5: NC (no connection)		

ArmorStart LT DeviceNet Connector and Pinout Summary

Control		22 mm	Male	Pin 1: Unswitched (A3)(red)	Catalog 889N-_65G*	
				Pin 2: Common (A2)(black)		
				Pin 3: PE (green)		
				Pin 4: Not used (blank)		
				Pin 5: Switched (A1)(blue)		
				Pin 6: Not used (white)		





Motor		22 mm	Female	Pin 1: T1 (black)	Catalog 280-PWRM22*	
				Pin 2: T2 (white)	Catalog 284-PWRM22* (shielded)	
				Pin 3: T3 (red)		
				Pin 4: Ground (green/yellow)		

ArmorStart LT DeviceNet Connector and Pinout Summary

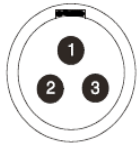

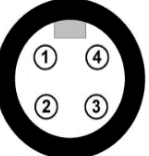



<p>3 Phase Input</p>		<p>22 mm</p>	<p>Male</p>	<table border="1"> <tr> <td>Pin 1: L1 (black)</td> </tr> <tr> <td>Pin 2: L2 (white)</td> </tr> <tr> <td>Pin 3: L3 (red)</td> </tr> <tr> <td>Pin 4: Ground (green/yellow)</td> </tr> </table>	Pin 1: L1 (black)	Pin 2: L2 (white)	Pin 3: L3 (red)	Pin 4: Ground (green/yellow)	<p>Catalog 280-PWRM22_-M*</p>	
Pin 1: L1 (black)										
Pin 2: L2 (white)										
Pin 3: L3 (red)										
Pin 4: Ground (green/yellow)										
<p>Em Brake</p>		<p>22 mm</p>	<p>Female</p>	<table border="1"> <tr> <td>Pin 1 - Ground (green/yellow)</td> </tr> <tr> <td>Pin 2 - B1 (black)</td> </tr> <tr> <td>Pin 3 - B2 (white)</td> </tr> </table>	Pin 1 - Ground (green/yellow)	Pin 2 - B1 (black)	Pin 3 - B2 (white)	<p>Catalog 285-BRC22-M*</p>		
Pin 1 - Ground (green/yellow)										
Pin 2 - B1 (black)										
Pin 3 - B2 (white)										

ArmorStart "Special" G Version Connector and Pinout Summary

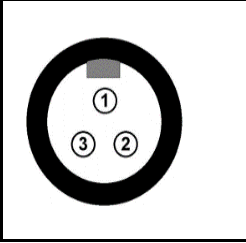

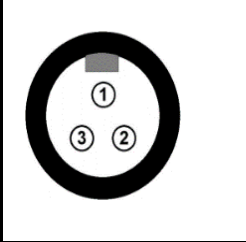

ArmorStart-GM version media connector guide
 Applies to the following Catalog Numbers
 28_G-F****-RRG*_*

Function	Connector	Size/ diameter	Gender	Pin Out	Recommended Cable Type	Image
Devicenet		23 mm	Male	Pin 1: Drain (no connection)	Bulletin 1485C, Trunk/drop cable	
				Pin 2: +VDNET		
				Pin 3: -VDNET		
				Pin 4: CAN_H		
				Pin 5: CAN_L		
Input		12 mm	Female	Pin 1: +24V (sourced from A3)	Bulletin 889D, IO Cable	
				Pin 2: Input 1,3	Bulletin 879D, V-Cable accessory	
				Pin 3: Common		
				Pin 4: Input 0,2		
				Pin 5: NC (no connection)		
Output	No Output connections					No output cable

ArmorStart "Special" G Version Connector and Pinout Summary

<p>Control</p>		<p>22 mm</p>	<p>Male</p>	<p>Pin 1: GND (green/yellow) Pin 2: 120VAC (black) Pin 3: Neutral (white)</p>		
<p>Motor</p>		<p>35 mm</p>	<p>Female</p>	<p>Pin 1: T1 (black) Pin 2: Ground (green/yellow) Pin 3: T3 (red) Pin 4: T2 (white)</p>	<p>Catalog 280-MTR35*</p>	
<p>3 Phase Input</p>		<p>35 mm</p>	<p>Male</p>	<p>Pin 1: L1 (black) Pin 2: Ground (green/yellow) Pin 3: L3 (red) Pin 4: L2 (white)</p>	<p>Catalog 280-PWRM35A-M*</p>	

ArmorStart "Special" G Version Connector and Pinout Summary

Dynamic Brake		22 mm	Female	Pin 1: GND (green/yellow)	[-DB option]	
				Pin 2: BR+ (black)	Catalog 285-DBK22-M3	
				Pin 3: BR- (white)		
Em Brake		22 mm	Female	Pin 1: GND (green/yellow)	Catalog 889N-V3AFC-*	
				Pin 2: 120Vac (black)		
				Pin 3: Neutral (white)		

Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	https://rockwellautomation.custhelp.com/
Local Technical Support Phone Numbers	Locate the phone number for your country.	http://www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	http://www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	http://www.rockwellautomation.com/global/literature-library/overview.page
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	http://www.rockwellautomation.com/global/support/pcdc.page

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