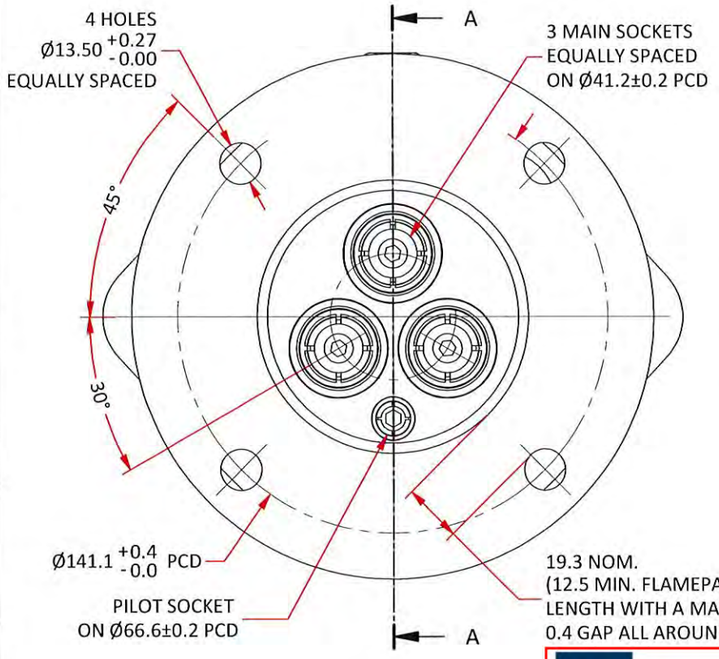
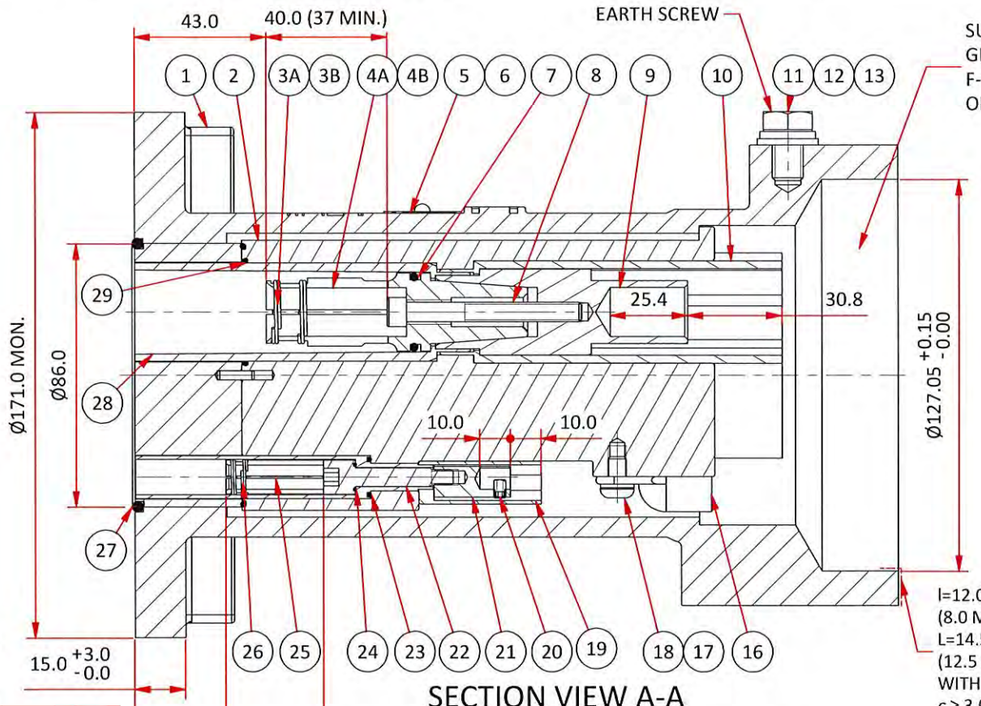
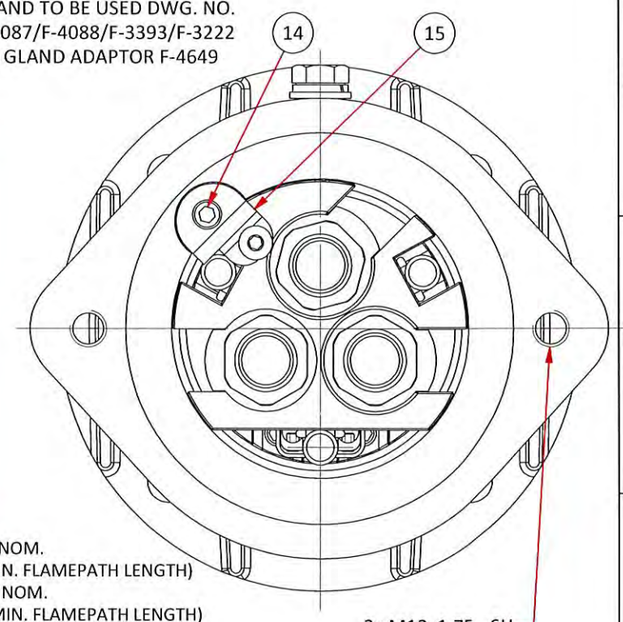
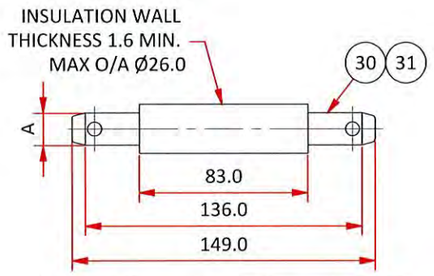




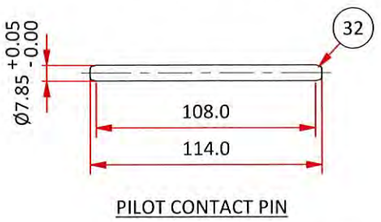
SECTION VIEW A-A



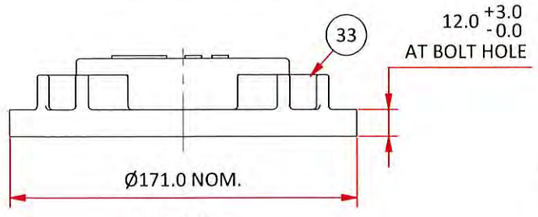


DIM.	300A	425A
A	15.80/15.85	18.97/19.02

MAIN CONTACT PIN



PILOT CONTACT PIN



END COVER

THIMBLES			
PART No.	CSA mm²	I.D.	UTILUX DIE No.
201-432	25	8.0	38-92 Cu
201-302	35	9.5	38-115 Cu
201-303	50	10.5	38-115 Cu
201-303-1	70	12.8	38-142 Cu
201-304-1	95	14.0	38-165 Cu
201-305-1	120	16.0	38-165 Cu
201-306-1	150	18.0	38-183 Cu
201-307-1	185	21.8	38-231 Cu
201-326-1	240	24.2	SOLDER ONLY

MARKING DETAILS

BOLTED COUPLER
M.I.P.
AA@#4T
@ AMPS 3=300 # VOLTS 6=660
4=425 1=1100
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

300A
1100V 660V
BLUE B24 ORANGE X15

425A
1100V 660V
B24/N24 X15/N24
(N24 SILVER BAND MIN. 25.0mm)

END COVER
M.I.P.
F-89237
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx

WARNING
DO NOT SEPARATE WHEN ENERGIZED

NOTES:
1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED ON THE DRAWING.
2. IN THE CASE OF BLIND HOLES FOR SCREWS, THE REMAINING THICKNESS OF MATERIAL UNDER THE HOLE IS A MINIMUM OF ONE THIRD OF THE SCREW DIAMETER OR 3MM, WHICHEVER IS GREATER.
3. FLANGE THICKNESS AT BOLT HOLE IS 15.0/18.0mm.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS1300 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS ≥ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT > H13(ISO286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE Ra DOES NOT EXCEED 6.3µm (ISO468).
7. MATERIAL HIGH TENSILE BRASS C86500 TO AS1565-1996 WITH A MINIMUM TENSILE STRENGTH 450 MPa AND MINIMUM 10% ELONGATION.
8. TERMINATION FOR CONNECTION BETWEEN THIMBLE AND CABLE IS BY UTILUX CRIMP DIE'S AS PER AS/NZS 4325 (IEC1238) OR SOLDER.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTENERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTENERS IS 4.6.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
33	1	F-89237	BLANKING COVER	HIGH TENSILE BRASS - NOTE 7
32	1	201-312	PILOT CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
31	1	F-201-356-1	425A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
30	1	F-89348	300A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
29	3	AI019068	O'RING ID 32 X SECT 1.5	NITRILE
28	3	4816	BOLTED COUPLER MAIN INSULATOR - LOWER	PTFE
27	1	AI019006	O'RING ID 82.14 X SECT 3.53	NITRILE
26	2	AH201364	CONTACT SOCKET SPRING	ST. STEEL
25	1	4819	BOLTED PLUG PILOT SOCKET	BRASS-SILVER PL. C38500 TO AS1567-1997
24	1	AI019065	O'RING ID 7 X SECT 1.0	NITRILE
23	1	AI019073	O'RING ID 10 X SECT 1.5	NITRILE
22	1	4817	BOLTED COUPLER PILOT INSULATOR	PTFE
21	1	4820	BOLTED PILOT THIMBLE - BODY SIZE B	HIGH TENSILE BRASS
20	3	AH151046	M4 X 6 GRUB SCREW	ST. STEEL
19	1	4818	BOLTED COUPLER PILOT THIMBLE INSULATOR	PTFE
18	4	AH115115	M6 X 10 BUTTON HD SCREW	STEEL-ZINC PL.
17	4	AH150014	M6 SS PLAIN WASHER	ST. STEEL
16	3	AH017206	35mm² LUG	COPPER-TIN PL.
15	1	4821	INTERIOR PRESS BRACKET	ST. STEEL
14	1	AH009857	1/4" UNC X 1/2" SKT HD SCREW	ST. STEEL
13	1	AH151011	M10 SQ SPRING WASHER	STEEL-ZINC PL.
12	1	AH150011	M10 X 20 X 1.6 WASHER	STEEL-ZINC PL.
11	1	AH113111	M10 X 16 HEX HEAD SCREW	STEEL-ZINC PL.
10	3	4815	BOLTED COUPLER MAIN INSULATOR - UPPER	PTFE
9	3	201 SERIES	MAIN THIMBLE	COPPER-SILVER PL. C14700 TO AS1567-1997
8	3	AH009868	1/4" UNC X 21/4" SKT HD SCREW	STEEL-ZINC PL.
7	3	AI019013	O'RING ID 20.29 X SECT 2.62	NITRILE
6	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
5	1	AX004076	RATING PLATE	C26000 CARTRIDGE BRASS 70-30
4B	3	201-300-1	425A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
4A	3	201-299	300A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
3B	6	AH201363	425A CONTACT SPRING	ST. STEEL
3A	6	AH201362	300A CONTACT SPRING	ST. STEEL
2	1	4812	BOLTED COUPLER MACHINED INTERIOR	REF. DRAWING# 4812
1	1	3432B	300/425A COUPLER BODY CASTING	HIGH TENSILE BRASS - NOTE 7

PARTS LIST

Ex TESTING & CERTIFICATION
IECEx ExTC 22.0004X-1

This document is approved as specified in the listed certificate

B

REV	ZONE	DESCRIPTION	DATE	APPROVED
B		ECN22014: PILOT SOCKET CHANGED MATERIAL FROM COPPER TO BRASS: COPPER & BRASS STANDARD CORRECTED	03/08/2022	
A		DRAWING CREATED	11/04/2022	

DO NOT SCALE DRAWING
DIMENSIONS IN MILLIMETERS

cmi Electrical Products
A division of CMI Operations Pty Ltd

GENERAL TOLERANCE ± 0.25
ANGULAR TOLERANCE ± 0.5

MATERIAL: REFER TO TABLE

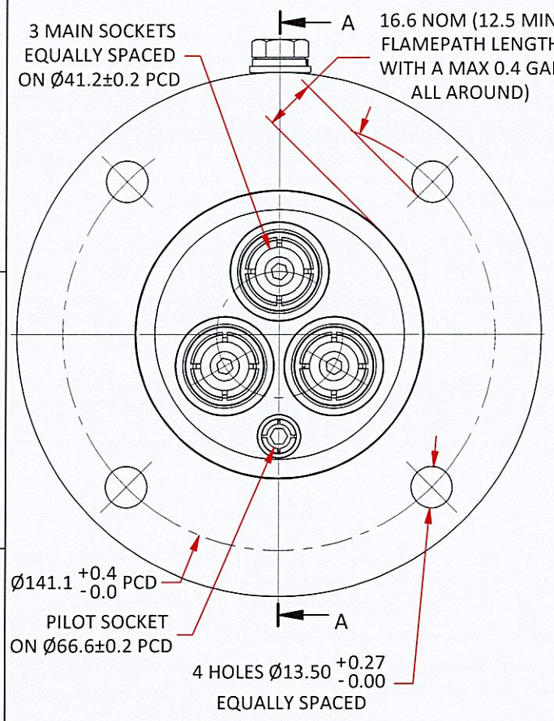
FINISH: COLOUR CODED TO AS/NZS1300

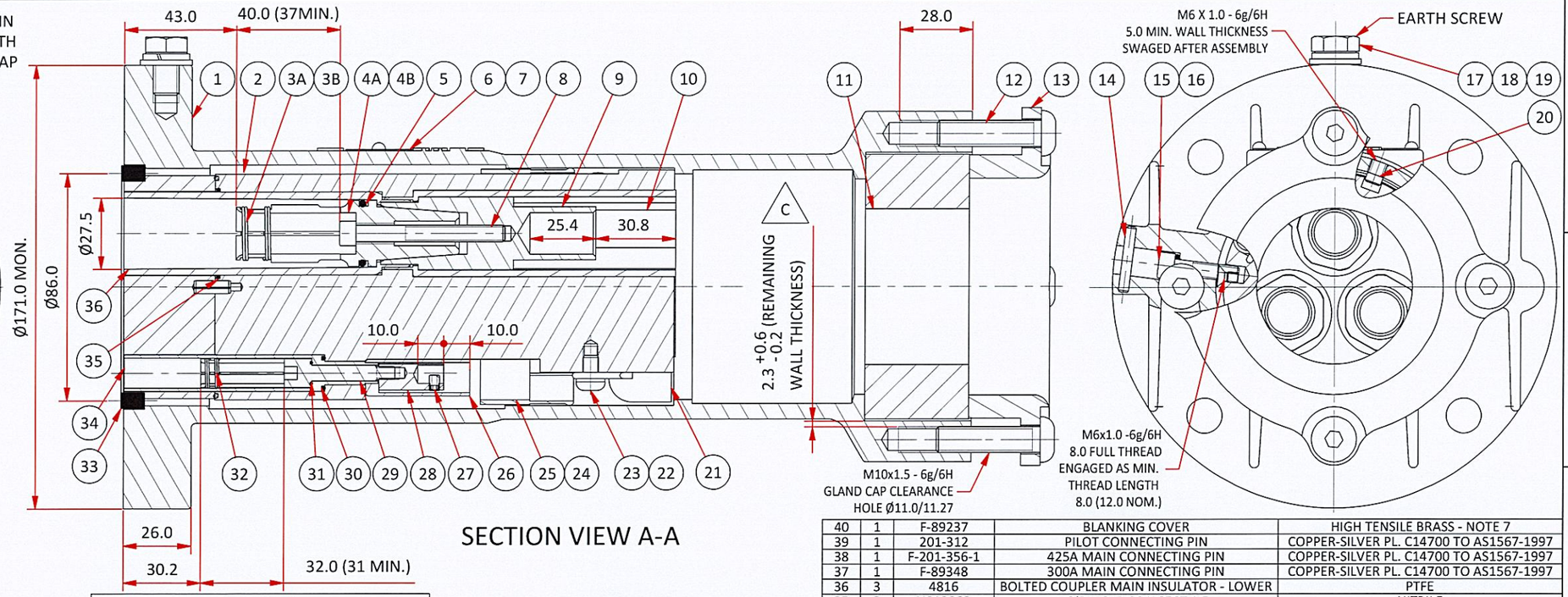
MINTO INDUSTRIAL PRODUCTS

DESCRIPTION: 300/425A 660/1100V BOLTED COUPLER BODY SIZE B - MACHINED INTERIOR

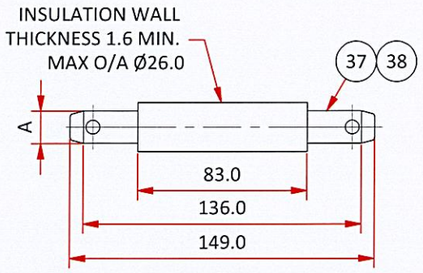
DRWN: JM Zhang | DATE: 11/10/2021 | DRAWING No.: F-863

CHECKED: 13 | SCALE: 1 : 2 | A3



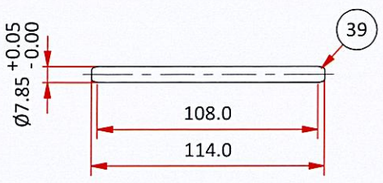


SECTION VIEW A-A

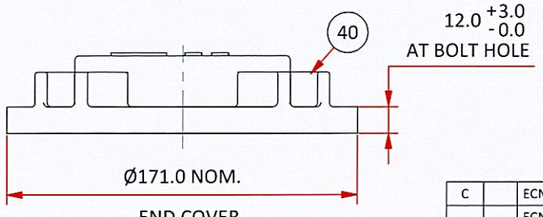


DIM.	300A	425A
A	15.80/15.85	18.97/19.02

MAIN CONTACT PIN



PILOT CONTACT PIN



END COVER

THIMBLES			
PART No.	CSA mm²	I.D.	UTILUX DIE No.
201-432	25	8.0	38-92 Cu
201-302	35	9.5	38-115 Cu
201-303	50	10.5	38-115 Cu
201-303-1	70	12.8	38-142 Cu
201-304-1	95	14.0	38-165 Cu
201-305-1	120	16.0	38-165 Cu
201-306-1	150	18.0	38-183 Cu
201-307-1	185	21.8	38-231 Cu
201-326-1	240	24.2	SOLDER ONLY

GROMMETS		GROMMETS	
PART No.	CABLE ACCEPTANCE	PART No.	CABLE ACCEPTANCE
4021-25	22.0-25.0	4021-54	50.0-54.0
4021-30	24.0-30.0	4021-57	53.0-57.0
4021-32	29.0-32.0	4021-60	56.0-60.0
4021-34	31.0-34.0	4021-64	59.0-64.0
4021-37	33.0-37.0	4021-67	63.0-67.0
4021-40	36.0-40.0	4021-70	66.0-70.0
4021-43	39.0-43.0	4021-76	69.0-76.0
4021-47	42.0-47.0	4021-80	75.0-80.0
4021-51	46.0-51.0	4021-83	79.0-83.0

NOTES:
1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED ON THE DRAWING.
2. IN THE CASE OF BLIND HOLES FOR SCREWS, THE REMAINING THICKNESS OF MATERIAL UNDER THE HOLE IS A MINIMUM OF ONE THIRD OF THE SCREW DIAMETER OR 3MM, WHICHEVER IS GREATER.
3. FLANGE THICKNESS AT BOLT HOLE IS 15.0/18.0mm.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS1300 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS ≥ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT > H13(ISO286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE Ra DOES NOT EXCEED 6.3µm (ISO468).
7. MATERIAL HIGH TENSILE BRASS C86500 TO AS1565-1996 WITH A MINIMUM TENSILE STRENGTH 450 MPa AND MINIMUM 10% ELONGATION.
8. TERMINATION FOR CONNECTION BETWEEN THIMBLE AND CABLE IS BY UTILUX CRIMP DIE'S AS PER AS/NZS 4325 (IEC1238) OR SOLDER.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTENERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTENERS IS 4.6.
11. MINIMUM TORQUE OF 20Nm FOR CABLE CLAMPING CAP SCREW IS FOR SEALING TEST ON MANDREL

MARKING DETAILS

BOLTED COUPLER
M.I.P.
AA@#4T2
@ AMPS 3=300 # VOLTS 6=660
4=425 1=1100
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

300A
1100V 660V
BLUE B24 ORANGE X15

425A
1100V 660V
B24/N24 X15/N24
(N24 SILVER BAND MIN. 25.0mm)

END COVER
M.I.P.
F-89237
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx

WARNING
DO NOT SEPARATE WHEN ENERGIZED

Ex TESTING & CERTIFICATION
IECEx ExTC 22.0004X-3

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
40	1	F-89237	BLANKING COVER	HIGH TENSILE BRASS - NOTE 7
39	1	201-312	PILOT CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
38	1	F-201-356-1	425A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
37	1	F-89348	300A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
36	3	4816	BOLTED COUPLER MAIN INSULATOR - LOWER	PTFE
35	3	AI019068	O'RING ID 32 X SECT 1.5	NITRILE
34	1	4817	BOLTED COUPLER PILOT INSULATOR	PTFE
33	1	4023	300/425A FACE SEAL	NITRILE
32	2	AH201364	CONTACT SOCKET SPRING	ST. STEEL
31	1	AI019065	O'RING ID 7 X SECT 1.0	NITRILE
30	1	AI019073	O'RING ID 10 X SECT 1.5	NITRILE
29	1	4819	BOLTED PLUG PILOT SOCKET	BRASS-SILVER PL. C38500 TO AS1567-1997
28	1	4820	BOLTED PILOT THIMBLE - BODY SIZE B	HIGH TENSILE BRASS
27	3	AH151046	M4 X 6 GRUB SCREW	ST. STEEL
26	1	4818	BOLTED COUPLER PILOT THIMBLE INSULATOR	PTFE
25	1	4022	300/425A EARTH RING	FREE CUTTING BRASS
24	3	AH151040	M4 X 8 CSK PHILLIPS HD SCREW	ST. STEEL
23	3	AH115115	M6 X 10 BUTTON HD SCREW	STEEL-ZINC PL.
22	3	AH150014	M6 SS PLAIN WASHER	ST. STEEL
21	3	AH017206	35mm² LUG	COPPER-TIN PL.
20	1	3685-2	POLARISING RIVET	RIVETING & MACHINING BRASS
19	1	AH150011	M10 X 20 X 1.6 WASHER	STEEL-ZINC PL.
18	1	AH151011	M10 SQ SPRING WASHER	STEEL-ZINC PL.
17	1	AH113111	M10 X 16 HEX HEAD SCREW	STEEL-ZINC PL.
16	1	AI019030	O'RING ID 6.07 X SECT 1.78	NITRILE
15	1	AH151024	M6 X 25 SKT HD CAP SCREW	ST. STEEL
14	1	AH002972	5/32" X 1" SELLOCK PIN	STEEL-ZINC PL.
13	1	4014B	300/425A GLAND CAP CASTING	HIGH TENSILE BRASS - NOTE 7
12	4	AH151039	M10 X 40 BUTTON HD SCREW	ST. STEEL
11	1	4021 SERIES	300/425A CABLE GLAND GROMMET	NEOPRENE RUBBER
10	3	4815	BOLTED COUPLER MAIN INSULATOR - UPPER	PTFE
9	3	201 SERIES	MAIN THIMBLE	COPPER-SILVER PL. C14700 TO AS1567-1997
8	3	AH009868	1/4" UNC X 21/4" SKT HD SCREW	STEEL-ZINC PL.
7	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
6	1	AX004076	RATING PLATE	C26000 CARTRIDGE BRASS 70-30
5	3	AI019013	O'RING ID 20.29 X SECT 2.62	NITRILE
4B	3	201-300-1	425A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
4A	3	201-299	300A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
3B	6	AH201363	425A CONTACT SPRING	ST. STEEL
3A	6	AH201362	300A CONTACT SPRING	ST. STEEL
2	1	4813	BOLTED COUPLER MACHINED INTERIOR	REF. DRAWING# 4813
1	1	4013-1B	300/425A BOLTED COUPLER - INT. GLAND	HIGH TENSILE BRASS - NOTE 7

PARTS LIST

REV	ZONE	DESCRIPTION	DATE	APPROVED
C		ECN23029: ADDED SPECIFICATION FOR BLIND HOLE REMAINING WALL THICKNESS.	6/10/2023	
B		ECN22014: PILOT SOCKET CHANGED MATERIAL FROM COPPER TO BRASS: PART NUMBER AH151040 QTY CORRECTED TO 3 OFF: COPPER & BRASS STANDARD CORRECTED. NOTE 11 UPDATED	30/08/2022	

DO NOT SCALE DRAWING DIMENSIONS IN MILLIMETERS

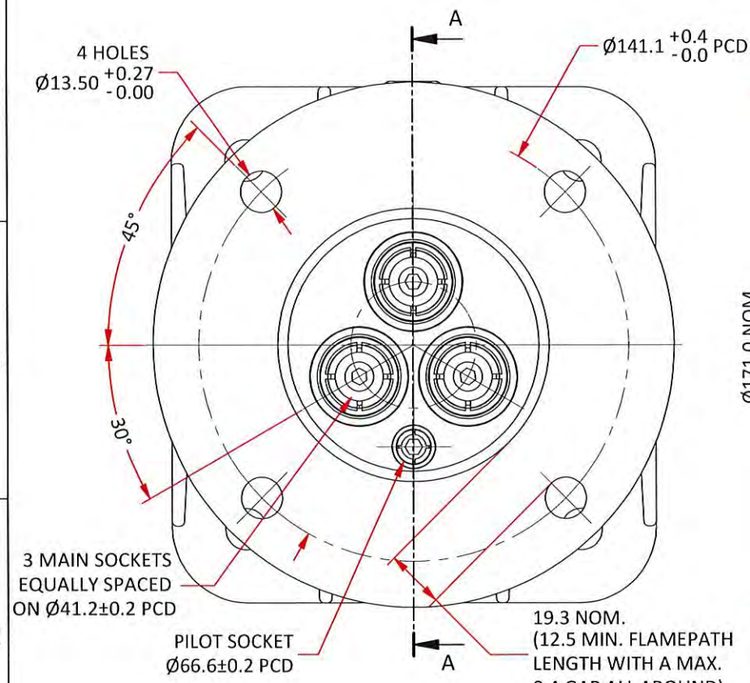
cmi Electrical Products
A division of CMI Operations Pty Ltd

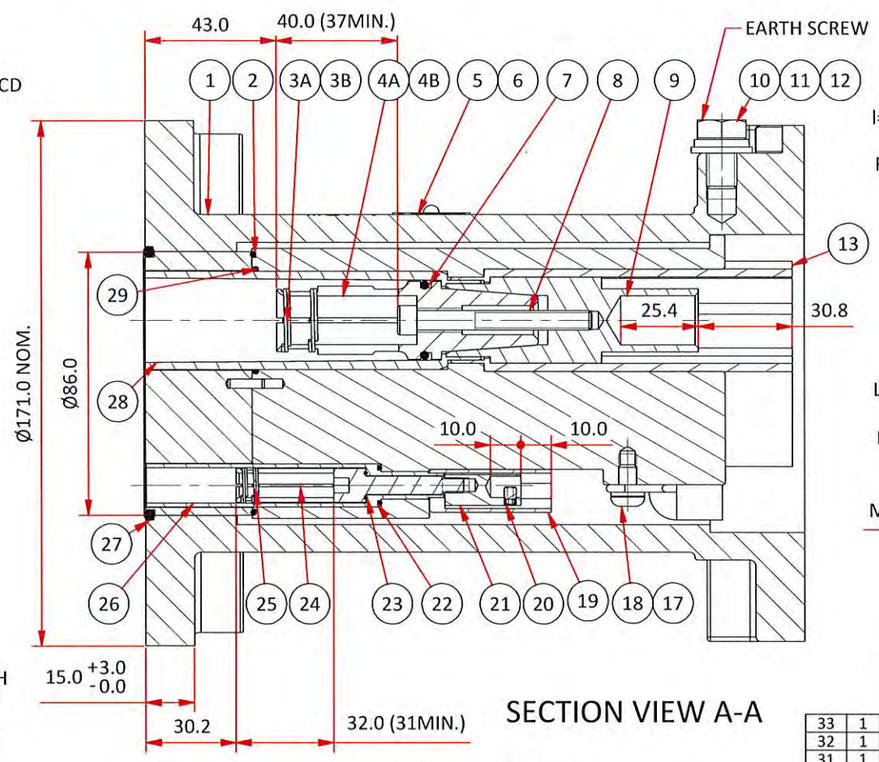
GENERAL TOLERANCE ± 0.25
ANGULAR TOLERANCE ± 0.5
MATERIAL: REFER TO TABLE
FINISH: COLOUR CODED TO AS/NZS1300

MINTO INDUSTRIAL PRODUCTS

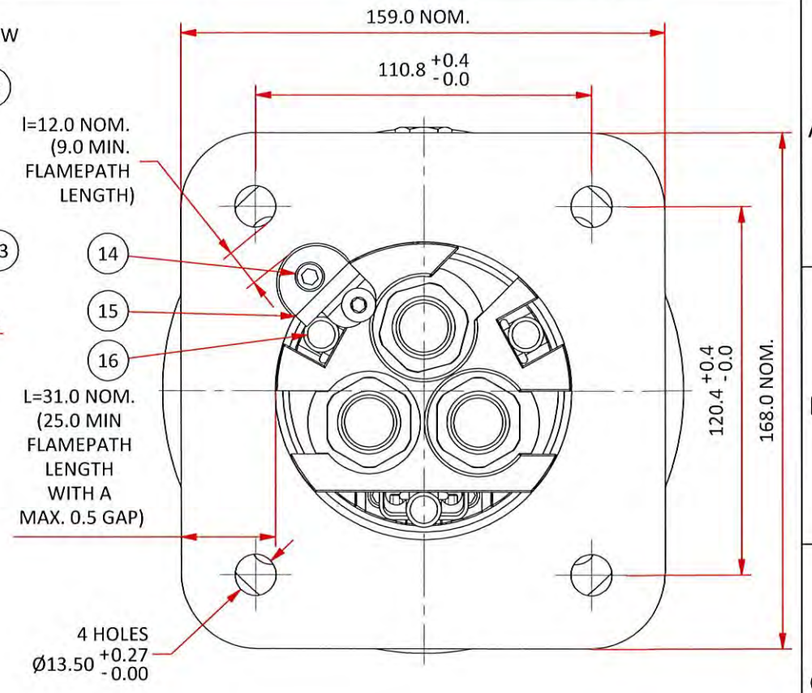
DESCRIPTION: 300/425A 660/1100V BOLTED COUPLER INT.GLAND BODY SIZE B - MACHINED INTERIOR

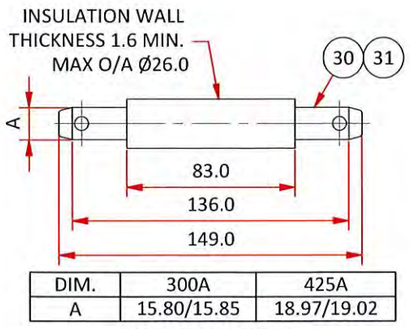
DRWN	DATE		DRAWING No.
JM Zhang	11/10/2021	A3	F-864
CHECKED	SCALE 1 : 2		





SECTION VIEW A-A

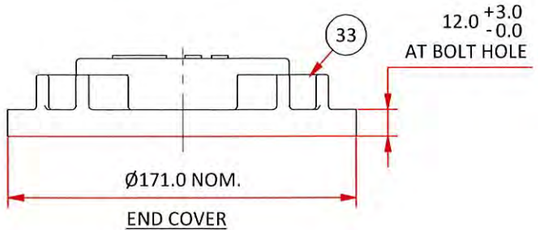




DIM.	300A	425A
A	15.80/15.85	18.97/19.02

MAIN CONTACT PIN

PILOT CONTACT PIN



END COVER

THIMBLES			
PART No.	CSA mm²	I.D.	UTILUX DIE No.
201-432	25	8.0	38-92 Cu
201-302	35	9.5	38-115 Cu
201-303	50	10.5	38-115 Cu
201-303-1	70	12.8	38-142 Cu
201-304-1	95	14.0	38-165 Cu
201-305-1	120	16.0	38-165 Cu
201-306-1	150	18.0	38-183 Cu
201-307-1	185	21.8	38-231 Cu
201-326-1	240	24.2	SOLDER ONLY

MARKING DETAILS

BOLTED ADAPTOR
M.I.P.
AB@#4T
@ AMPS 3=300 # VOLTS 6=660
4=425 1=1100
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

300A
1100V 660V
BLUE B24 ORANGE X15

425A
1100V 660V
B24/N24 X15/N24
(N24 SILVER BAND MIN. 25.0mm)

END COVER
M.I.P.
F-89237
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx

WARNING
DO NOT SEPARATE WHEN ENERGIZED

Ex TESTING & CERTIFICATION
IECEx ExTC 22.0004X-1
This document is approved as specified in the listed certificate

NOTES:
1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED ON THE DRAWING.
2. IN THE CASE OF BLIND HOLES FOR SCREWS, THE REMAINING THICKNESS OF MATERIAL UNDER THE HOLE IS A MINIMUM OF ONE THIRD OF THE SCREW DIAMETER OR 3MM, WHICHEVER IS GREATER.
3. FLANGE THICKNESS AT BOLT HOLE IS 15.0/18.0mm.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS1300 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS ≥ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT > H13(ISO286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE Ra DOES NOT EXCEED 6.3µm (ISO468).
7. MATERIAL HIGH TENSILE BRASS C86500 TO AS1565-1996 WITH A MINIMUM TENSILE STRENGTH 450 MPa AND MINIMUM 10% ELONGATION.
8. TERMINATION FOR CONNECTION BETWEEN THIMBLE AND CABLE IS BY UTILUX CRIMP DIE'S AS PER AS/NZS 4325 (IEC1238) OR SOLDER.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTENERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTENERS IS 4.6.

REV	ZONE	DESCRIPTION	DATE	APPROVED
B		ECN22014: PILOT SOCKET CHANGED MATERIAL FROM COPPER TO BRASS: COPPER & BRASS STANDARD CORRECTED	03/08/2022	
A		DRAWING CREATED	06/04/2022	

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
33	1	F-89237	BLANKING COVER	HIGH TENSILE BRASS - NOTE 7
32	1	201-312	PILOT CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
31	1	F-201-356-1	425A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
30	1	F-89348	300A MAIN CONNECTING PIN	COPPER-SILVER PL. C14700 TO AS1567-1997
29	3	AI019068	O'RING ID 32 X SECT 1.5	NITRILE
28	3	4816	BOLTED COUPLER MAIN INSULATOR - LOWER	PTFE
27	1	AI019006	O'RING ID 82.14 X SECT 3.53	NITRILE
26	1	4817	BOLTED COUPLER PILOT INSULATOR	PTFE
25	2	AH201364	CONTACT SOCKET SPRING	ST. STEEL
24	1	4819	BOLTED PLUG PILOT SOCKET	BRASS-SILVER PL. C38500 TO AS1567-1997
23	1	AI019065	O'RING ID 7 X SECT 1.0	NITRILE
22	1	AI019073	O'RING ID 10 X SECT 1.5	NITRILE
21	1	4820	BOLTED PILOT THIMBLE - BODY SIZE B	HIGH TENSILE BRASS
20	3	AH151046	M4 X 6 GRUB SCREW	ST. STEEL
19	1	4818	BOLTED COUPLER PILOT THIMBLE INSULATOR	PTFE
18	4	AH115115	M6 X 10 BUTTON HD SCREW	STEEL-ZINC PL.
17	4	AH150014	M6 SS PLAIN WASHER	ST. STEEL
16	3	AH017206	35mm² LUG	COPPER-TIN PL.
15	1	4821	INTERIOR PRESS BRACKET	ST. STEEL
14	1	AH009857	1/4" UNC X 1/2" SKT HD SCREW	ST. STEEL
13	3	4815	BOLTED COUPLER MAIN INSULATOR - UPPER	PTFE
12	1	AH151011	M10 SQ SPRING WASHER	STEEL-ZINC PL.
11	1	AH150011	M10 X 20 X 1.6 WASHER	STEEL-ZINC PL.
10	1	AH113111	M10 X 16 HEX HEAD SCREW	STEEL-ZINC PL.
9	3	201 SERIES	MAIN THIMBLE	COPPER-SILVER PL. C14700 TO AS1567-1997
8	3	AH009868	1/4" UNC X 21/4" SKT HD SCREW	STEEL-ZINC PL.
7	3	AI019013	O'RING ID 20.29 X SECT 2.62	NITRILE
6	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
5	1	AX004076	RATING PLATE	C26000 CARTRIDGE BRASS 70-30
4B	3	201-300-1	425A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
4A	3	201-299	300A MAIN SOCKET	COPPER-SILVER PL. C14700 TO AS1567-1997
3B	6	AH201363	425A CONTACT SPRING	ST. STEEL
3A	6	AH201362	300A CONTACT SPRING	ST. STEEL
2	1	4812	BOLTED COUPLER MACHINED INTERIOR	REFER DRAWING# 4812
1	1	3439B	300/425A ADAPTOR BODY CASTING	HIGH TENSILE BRASS - NOTE 7

PARTS LIST

B

DO NOT SCALE DRAWING DIMENSIONS IN MILLIMETERS

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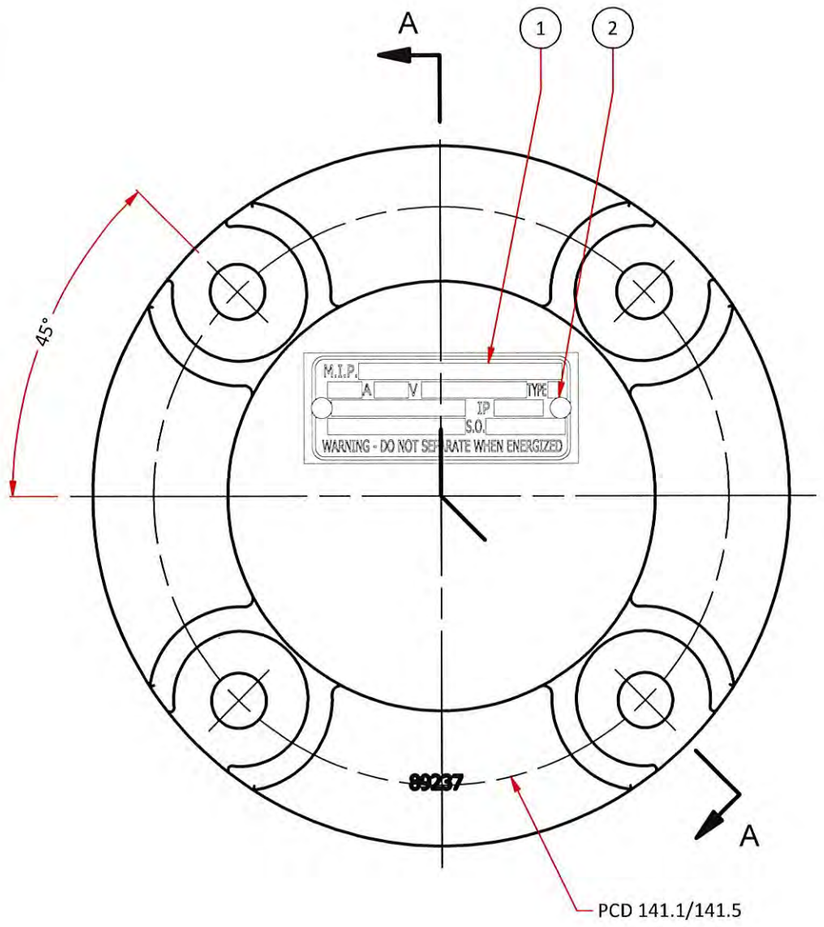
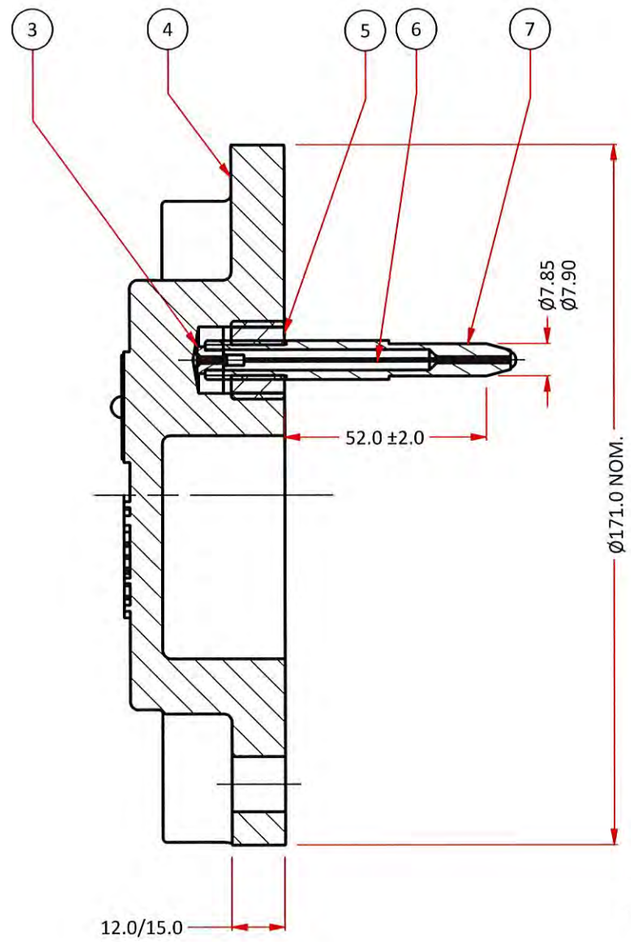
GENERAL TOLERANCE ± 0.25
ANGULAR TOLERANCE ± 0.5
MATERIAL: REFER TO TABLE
FINISH: COLOUR CODED TO AS/NZS1300

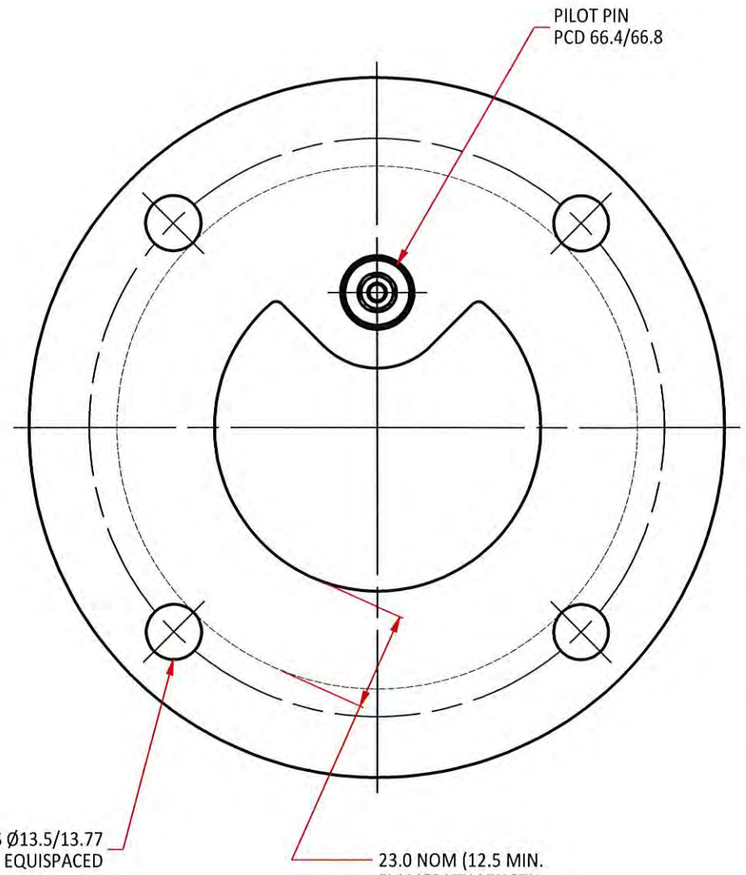
MINTO INDUSTRIAL PRODUCTS

DESCRIPTION: 300/425A 660/1100V BOLTED ADAPTOR BODY SIZE B - MACHINED INTERIOR

DRWN: JM Zhang | DATE: 11/10/2021 | CHECKED | SCALE: 1 : 2 | A3 | DRAWING No.: F-865







SECTION A-A

MARKING DETAILS

DIODE BLANKING COVER

M.I.P.
F-89237D
IP66
Ex db I Mb
IECEx ExTC 22.0004X
S.O. xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

NOTES:
1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED ON THE DRAWING.
2. IN THE CASE OF BLIND HOLES FOR SCREWS, THE REMAINING THICKNESS OF MATERIAL UNDER THE HOLE IS A MINIMUM OF ONE THIRD OF THE SCREW DIAMETER OR 3MM, WHICHEVER IS GREATER.
3. FLANGE THICKNESS AT BOLT HOLE IS 12.0/15.0mm.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS 1300 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO 262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS ≥ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT > H13 (ISO 286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE Ra DOES NOT EXCEED 6.3µm (ISO 468).
7. MATERIAL HIGH TENSILE BRASS C86500 TO AS 1565-1996 WITH A MINIMUM TENSILE STRENGTH 450 MPa AND MINIMUM 10% ELONGATION.
8. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTNERS IS A*-70.
9. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTNERS IS 4.6.

Ex TESTING & CERTIFICATION
IECEx ExTC 22.0004X-0
This document is approved as specified in the listed certificate

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
7	1	3592	PILOT CONTACT PIN	COPPER-SILVER PL. C14700 TO AS/NZS 1565-1997
6	1	AX022400	DIODE	COPPER
5	1	3591	INSULATOR	PTFE
4	1	89237	BLANKING COVER	HIGH TENSILE BRASS - NOTE 7
3	1	4309	DIODE INSULATOR	PTFE
2	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
1	1	AX004076	RATING PLATE	C26000 CARTRIDGE BRASS 70-30

PART LIST

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MINTO INDUSTRIAL PRODUCTS

DO NOT SCALE DRAWING DIMENSIONS IN MILLIMETERS

GENERAL TOLERANCE ± 0.25
ANGULAR TOLERANCE ± 0.5

MATERIAL: REFER NOTES

FINISH: REFER NOTES

DESCRIPTION: 300/425A BLANKING COVER WITH DIODE BODY SIZE B

DRWN: JM Zhang | DATE: 25/02/2022 | DRAWING No.: F-866

CHECKED | SCALE: 1 : 1.5 | A3

REV	ZONE	DESCRIPTION	DATE	APPROVED
A		DRAWING CREATED	06/04/2022	

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ABN 87 088 279 270

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Ex TESTING & CERTIFICATION
IECEx ExTC 22.0004X-1

Instructions for Body Size B Bolted Range

Inst. Body Size B - 1

Catalogue Number	Description
AB364T	300 AMP 660 VOLT 4 PIN BOLTED ADAPTER
AB464T	425 AMP 660 VOLT 4 PIN BOLTED ADAPTER
AB314T	300 AMP 1100 VOLT 4 PIN BOLTED ADAPTER
AB414T	425 AMP 1100 VOLT 4 PIN BOLTED ADAPTER
AA364T	300 AMP 660 VOLT 4 PIN BOLTED COUPLER
AA464T	425 AMP 660 VOLT 4 PIN BOLTED COUPLER
AA314T	300 AMP 1100 VOLT 4 PIN BOLTED COUPLER
AA414T	425 AMP 1100 VOLT 4 PIN BOLTED COUPLER
AA364T2	300 AMP 660 VOLT 4 PIN BOLTED COUPLER WITH INT. GLAND
AA464T2	425 AMP 660 VOLT 4 PIN BOLTED COUPLER WITH INT. GLAND
AA314T2	300 AMP 1100 VOLT 4 PIN BOLTED COUPLER WITH INT. GLAND
AA414T2	425 AMP 1100 VOLT 4 PIN BOLTED COUPLER WITH INT. GLAND
F-89237	END COVER
F-89237D	END COVER WITH DIODE

- **Adapter Installation**
  - Confirm thimbles are suitable the conductors
  - Ensure there is no visible sign of damage to the adapter
  - Ensure the mounting pad complies with the attached sketch
  - The special fasteners used on the enclosures to mount the Adaptor to the flameproof enclosure shall be of minimum grade 4.6 (yield stress 240 MPa). Or A*-70 Stainless Steel (yield stress 450 MPa) or 4.6 Mild Steel (yield stress 240 MPa).
  - Prepare the cables to the dimensions given in the Inst. Body Size B-2.
  - Crimp or solder the thimbles to the phase and pilot cables

- **Coupler Installation**
  - Confirm components suitable for application e.g. thimbles and grommets suitable for the conductors and cable
  - Slide the gland cap, neoprene cone and plug body along the cable
  - Prepare the cables to the dimensions given in the Inst. Body Size B-2.
  - Crimp or solder the thimbles to the phase, pilot and earth cores
  - Fit the conductors to the appropriate location securing in place with screw through socket where appropriate
  - Assemble the coupler, ensuring the interior rotation conforms to AS/NZS1300
  - Fit blanking cover (F-89237) if required. Care should be taken not to damage the earth sleeve flamepath
  - Slide the neoprene cone into position and bolt the gland cap to the body
    - Refer to Inst. Body Size B-2 for further details on installation and testing of cable fitment
  - NOTE: For more information refer to TCG-1 No.2 to No.5 Glands Termination and Maintenance instruction.

- **Connection of Protective Earthing Conductors**
  - This range of bolted couplers and adaptors has facility for earthing conductors up to 150 mm^2.
  - It is the responsibility of the installer to determine and fit the correct sized earth conductors.

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- **Use**
  - Isolate power before connecting or disconnecting.
- **Assembly**
  - Ensure sockets are clean and serviceable.
  - Ensure correct pin alignment.
  - Insert correct phase and pilot connecting pins
  - Bolt together using M12 x 50 special fasteners.
- **Disassembly**
  - Remove M12 x 50 bolts to separate.
  - Remove phase and pilot connecting pins
  - Fit blanking cover to flange.
- **Certification Details:**

Certified to:	IEC 60079-0; IEC 60079-1; AS/NZS 1300:
Certificate of Conformity:	IECEx ExTC 22.0004X
Type of Protection:	Ex db I Mb
Type (AS/NZS 1300)	Type A
Ingress Protection:	IP 66

- **Certification Nameplate Details**

TYPICAL 300/425A BOLTED COUPLER RATING PLATE DETAILS	**TYPICAL 300/425A BOLTED COUPLER (INT GLAND) RATING PLATE DETAILS**	**TYPICAL 300/425A BOLTED ADAPTOR RATING PLATE DETAILS**

M.I.P.
AA@#4T
@ AMPS 3=300 # VOLTS 6=660
4=425 1=1100
IP66
Ex db I Mb
IECEx ExTC 22.0004X
TYPE A
S.O. xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED
	M.I.P.
	AA@#4T2
	@ AMPS 3=300 # VOLTS 6=660
	4=425 1=1100
	IP66
	Ex db I Mb
	IECEx ExTC 22.0004X
	TYPE A
	S.O. xxxxx-xx
	WARNING
	DO NOT SEPARATE WHEN ENERGIZED
		M.I.P.
		AB@#4T
		@ AMPS 3=300 # VOLTS 6=660
		4=425 1=1100
		IP66
		Ex db I Mb
		IECEx ExTC 22.0004X
		TYPE A
		S.O. xxxxx-xx
		WARNING
		DO NOT SEPARATE WHEN ENERGIZED

TYPICAL 300/425A END COVER RATING PLATE DETAILS	**TYPICAL 300/425A END DIODE COVER RATING PLATE DETAILS**	
M.I.P. F-89237 IP66 Ex db I Mb IECEx ExTC 22.0004X TYPE A S.O. xxxxx-xx WARNING DO NOT SEPARATE WHEN ENERGIZED	M.I.P. F-89237D IP66 Ex db I Mb IECEx ExTC 22.0004X TYPE A S.O. xxxxx-xx WARNING DO NOT SEPARATE WHEN ENERGIZED	

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IECEx ExTC 22.0004X-1

- **Specific Conditions of Use**
  - The special fasteners used to assemble the end cover, coupler and adaptor and mount the adaptor to the Ex d enclosure shall be of minimum grade A*-70 Stainless Steel (yield stress 450 MPa) or 4.6 Mild Steel (yield stress 240 MPa).
  - The special fasteners used to assemble the cable gland clamping cap shall be M10 x 40 button head screw and shall be of minimum grade A*-70 Stainless Steel (yield stress 450 MPa) or 4.6 Mild Steel (yield stress 240 MPa).
  - When the adaptor is not joined to a coupler the adaptor shall be blanked by the end blanking cover.
  - The flange flamepath used to assemble the adaptor to flameproof enclosures shall be of minimum width 12.5mm and maximum gap 0.4mm and a surface roughness R_a of 6.3µm or better.
- **Maintenance**
  - Inspection shall include cleanliness and compliance with certification documentation.
  - Check as per AS/NZS2290.1
- **Overhaul and Repair**
  - To be carried out by suitable workshop.
  - It is recommended that the equipment is overhauled at intervals that do not exceed the requirements of AS/NZS2290.1
- **Operating Temperature**
  - Operating temperature range -20°C to +40°C and average temperature over 24 hours is not to exceed 35°C

Refer to Inst. Body Size B - 2 for additional detailed instructions