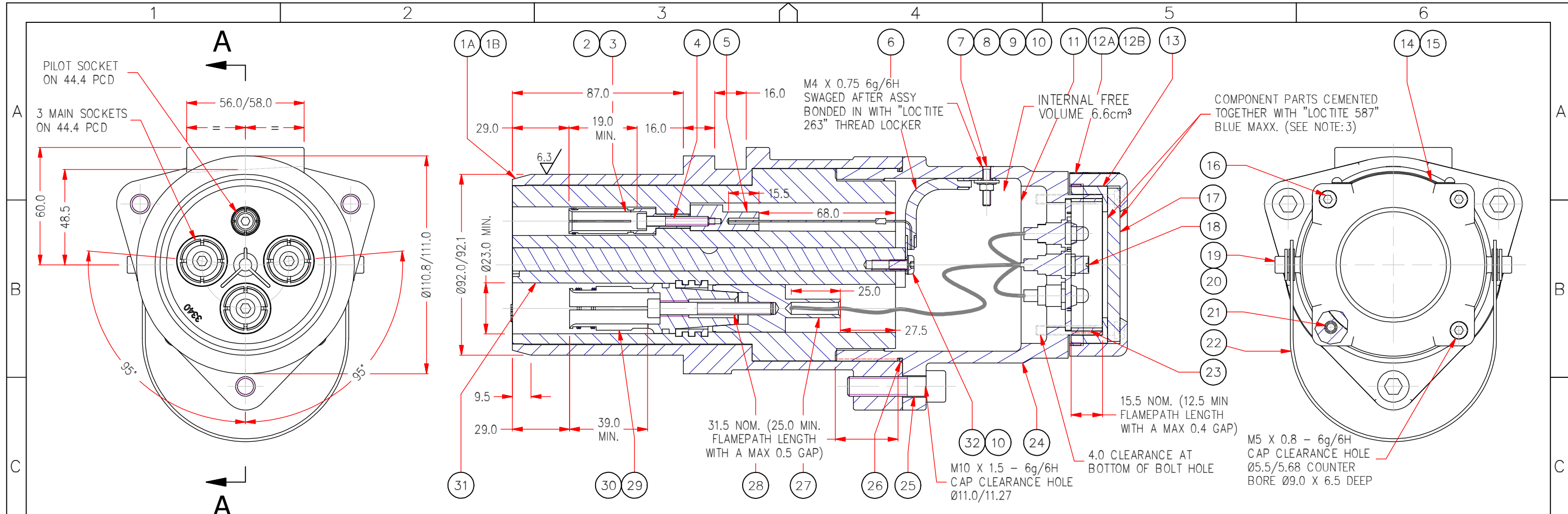
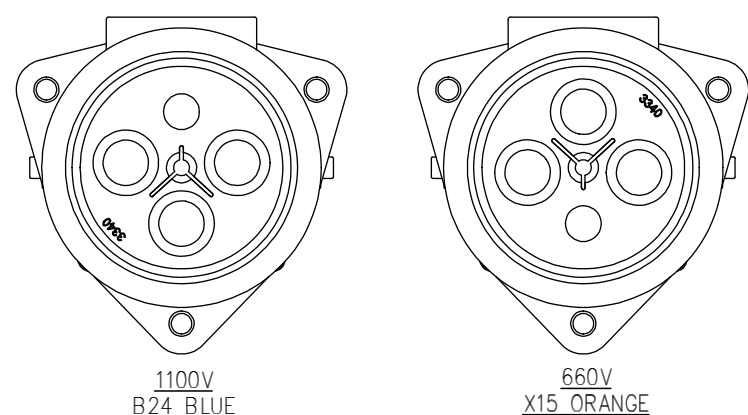




SECTION A-A



CONFIGURATION

MARKING DETAILS

M.I.P.
AT3#4R@
300A
VOLTS 6=660V
1=1100V
@ NOSE CONE S=ST. STEEL
BLANK=BRONZE

IP66
Ex d I Mb
IECE_x TSA 13.0005X
ANZEx 13.3002
TYPE A
S.O xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

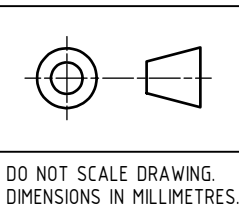
NOTES

1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED.
2. IN CASE OF HOLES FOR SCREWS, THE REMAINING THICKNESS OF THE FLAMEPROOF ENCLOSURE WILL BE AT LEAST ONE-THIRD OF THE NOMINAL DIAMETER OF THE SCREW WITH A MINIMUM OF 3.0mm.
3. ITEM No. 17 COATED BOTH SIDES APPROX 12.0mm FROM OUTER EDGE (WITH 10.0mm MIN.) BEFORE ASSEMBLY, ITEMS CLAMPED TOGETHER DURING ASSEMBLY.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS 1299 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 R_a 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 TORQUE OF 10.0 Nm FOR CAP SCREWS.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTNERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTNERS IS 4.6.

This document forms part of the certification package issued by TestSafe Australia Certificate Numbers ANZEx 13.3002-1 & IECE_x TSA 13.0005X-1

THIS DRAWING REMAINS THE PROPERTY OF MINTO INDUSTRIAL PRODUCTS AND MUST NOT BE LENT OR COPIED.

PART No.
AT314R / AT364R
AT314RS / AT364RS



ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
32	1	AH117117	M5x10 BUTTON HD CAP SCREW	ST. STEEL
31	1	3340	INTERIOR MOUNTING	NEOPRENE
30	6	AH201362	CONTACT SPRING	ST. STEEL
29	3	201-299	MAIN SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
28	3	AH009868	1/4" UNC X 21/4" SKT HD SCREW	ST. STEEL
27	3	3347	MAIN THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
26	1	AID19046	O'RING BS 144	NITRILE
25	3	AH117113	M10 X 40 SKT HD SET SCREW (ISO4762)	ST. STEEL
24	1	40008	PHASE CONDITION BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
23	1	3115	SPACER	PVC
22	1	F-AX000400	HANDLE	NYLON
21	1	AH002987	1/4" X 7/8" SELLOCK PIN	STEEL-ZINC PL
20	2	AH009251	3/16" X 5/8" X 18 WASHER	STEEL-ZINC PL
19	2	AH151033	M5 X 16 SKT HD CAP SCREW	ST. STEEL
18	1	3103	INDICATOR LIGHT PANEL	-
17	1	3105	INSPECTION WINDOW	LEXAN MR10
16	4	AH151015	M5 X 40 SKT HD CAP SCREW (ISO4762)	ST. STEEL
15	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL
14	1	AX004076	RATING PLATE	BRASS
13	1	3198-1	INSPECTION WINDOW RETAINING RING	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
12B	1	3173	RTU CAP CASTING (OPTIONAL)	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
12A	1	3197-1	CAP CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
11	1	-	RTU MODULE (OPTIONAL)	-
10	2	AH009380	3/16" STAR WASHER	STEEL-ZINC PL
9	1	AH151019	M4 NUT	STEEL-ZINC PL
8	1	AH009273	1/4" X 1/2" X 18 WASHER	STEEL-ZINC PL
7	1	AH151016	M4 X 20 CH HD SCREW	BRASS
6	1	4576-1	EARTH LEAD 6mm ² WITH PILOT DIODE	PVC INSUL. CABLE / IN4007 DIODE
5	1	3589-1	PILOT THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997
4	1	AH009834	10-24 UNC X 11/4" SKT HD SCREW	ST. STEEL
3	1	3138-2	PILOT SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
2	1	AH201405	CONTACT SOCKET SPRING	ST. STEEL
1B	1	33425S	BODY CASTING	ST. STEEL 303 MIN. GRADE
1A	1	33428	BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
Parts List				

21/09
16.

11/02
13.

04/02
'99.

01/12
'95.

REVISION

DATE

ZONE

REV.

cmi

Electrical Products

A division of CMI Operations Pty Ltd

GENERAL TOLERANCE ±0.5
UNLESS OTHERWISE SPECIFIED

MATERIAL

FINISH

COLOUR CODED AS PER
AS 2700

DESCRIPTION

300A 660/1100V RESTRAINED
PHASE CONDITION INDICATOR

SCALE

NTS

DATE

15/12/95

CHECKED

APPROVED

DRAWN

DMC

DRAWING No.

F-183

DRAWING No.

A3

1

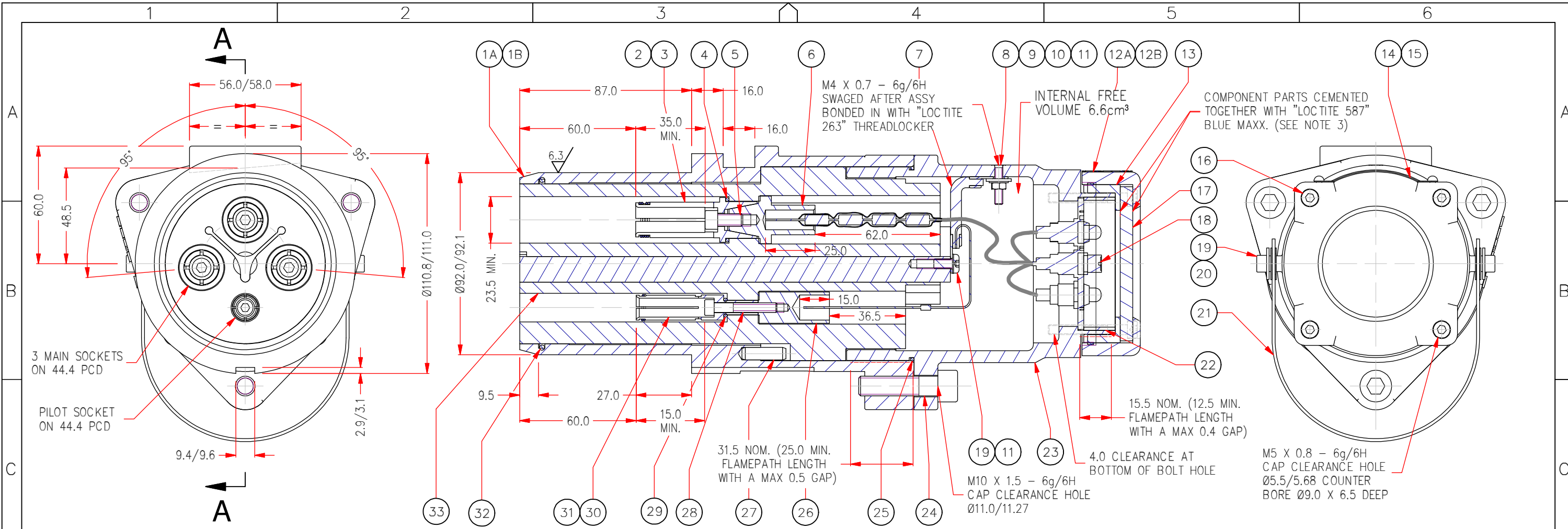
2

3

4

5

6



SECTION A-A

MARKING DETAILS

M.I.P.
AT334S@
300A
3300V
@ NOSE CONE S=ST. STEEL
BLANK=BRONZE

IP66
Ex d I Mb
IECEX TSA 13.0005X
ANZEx 13.3002
TYPE A
S.O xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

NOTES		
1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED.		
2. IN CASE OF HOLES FOR SCREWS, THE REMAINING THICKNESS OF THE FLAMEPROOF ENCLOSURE WILL BE AT LEAST ONE-THIRD OF THE NOMINAL DIAMETER OF THE SCREW WITH A MINIMUM OF 3.0mm.		
3. ITEM No. 17 COATED BOTH SIDES APPROX 12.0mm FROM OUTER EDGE (WITH 10.0mm MIN.) BEFORE ASSEMBLY, ITEMS CLAMPED TOGETHER DURING ASSEMBLY.		
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS 1299 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 R _a 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 TORQUE OF 10.0 Nm FOR CAP SCREWS.		
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTNERS IS A*-70.		
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTNERS IS 4.6.		

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
33	1	3960	INTERIOR Moulding	DMC 6804G7B
32	1	A1019023	O'RING ID 82.22 X SECT 2.62	NITRILE
31	1	AH201405	CONTACT SOCKET SPRING	ST. STEEL
30	1	3138-2	PILOT SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
29	1	A1019030	O'RING ID 6.07 X SECT 1.78	NITRILE
28	1	AH009814	10-24 UNC. X 11/4" SKT HD SCREW	ST. STEEL
27	2	AH002987	1/4" X 7/8" SELLOCK PIN	STEEL-ZINC PL.
26	1	3984	PILOT THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997
25	1	A1019046	O'RING BS 144	NITRILE
24	3	AH117113	M10 x 40 SKT HD SET SCREW (ISO4762)	ST. STEEL
23	1	4000B	PHASE CONDITION BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS/NZS 1565-1996
22	1	3115	SPACER	PVC
21	1	F-AX000400	HANDLE	NYLON
20	2	AH009251	3/16" X 5/8" X 18 WASHER	STEEL-ZINC PL.
19	1	AH117117	M5x10 BUTTON HD CAP SCREW	ST. STEEL
18	1	4124	INDICATOR LIGHT PANEL	-
17	1	3105	INSPECTION WINDOW	LEXAN MR10
16	4	AH151015	M5 x 40 SKT HD CAP SCREW (ISO4762)	ST. STEEL
15	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
14	1	AX004076	RATING PLATE	BRASS
13	1	3198-1	INSPECTION WINDOW RETAINING RING	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
12B	1	3173	RTU CAP CASTING (OPTIONAL)	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
12A	1	3197-1	PHASE CONDITION INDICATOR CAP	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS/NZS 1565-1996
11	2	AH009380	3/16" STAR WASHER	STEEL-ZINC PL.
10	1	AH151019	M4 NUT	STEEL-ZINC PL.
9	1	AH009273	1/4" X 1/2" X 18 WASHER	STEEL-ZINC PL.
8	1	AH151016	M4 X 20 CH HD SCREW	BRASS
7	1	4576-1	EARTH LEAD 6mm ² WITH PILOT DIODE	PVC INSUL. CABLE / IN4007 DIODE
6	3	3962	MAIN THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
5	3	AH009857	1/4" UNC. X 1/2" SKT HD SCREW	ST. STEEL
4	3	A1019032	O'RING ID 18.77 X SECT 1.78	NITRILE
3	3	3961	MAIN SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
2	6	AH201361	CONTACT SOCKET SPRING	ST. STEEL
1B	1	3342-1SS	BODY CASTING	ST. STEEL 303 MIN. GRADE
1A	1	3342-1B	BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS/NZS 1565-1996
ITEM QTY PART NUMBER DESCRIPTION MATERIAL				

THIS DRAWING REMAINS THE PROPERTY OF MINTO INDUSTRIAL PRODUCTS AND MUST NOT BE LENT OR COPIED.

PART No.
AT334S / AT334SS

DO NOT SCALE DRAWING. DIMENSIONS IN MILLIMETRES.

REVISION

REV.	DATE	ZONE	REV.
F1	21/09/16	-	-
C	11/02/13	-	-
B	01/06/95	-	-

DATE: 20/06/95

GENERAL TOLERANCE ±0.5 UNLESS OTHERWISE SPECIFIED

MATERIAL: SEE TABLE

FINISH: R13 RED AS PER AS 2700

DESCRIPTION: 300A 3.3KV RESTRAINED PHASE CONDITION INDICATOR

SCALE: NTS

DATE: 20/06/95

DRAWN: DMC

CHECKED: [Signature]

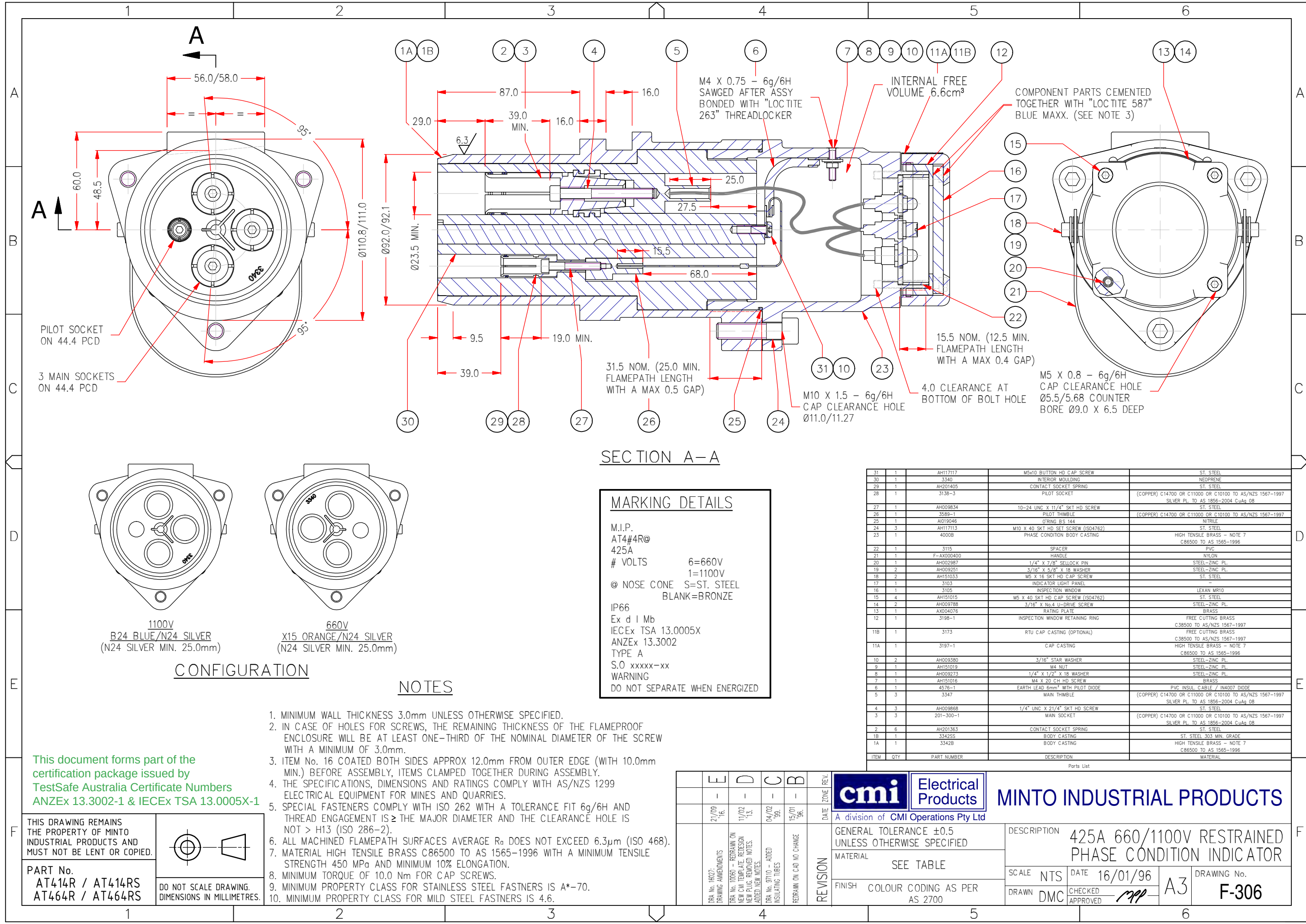
APPROVED: [Signature]

DRAWING No. F-273

cmi Electrical Products

A division of CMI Operations Pty Ltd

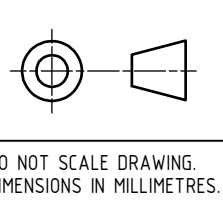
MINTO INDUSTRIAL PRODUCTS



This document forms part of the certification package issued by TestSafe Australia Certificate Numbers ANZEx 13.3002-1 & IECEx TSA 13.0005X-1

THIS DRAWING REMAINS THE PROPERTY OF MINTO INDUSTRIAL PRODUCTS AND MUST NOT BE LENT OR COPIED.

PART No.
AT414R / AT414RS
AT464R / AT464RS



1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED.
2. IN CASE OF HOLES FOR SCREWS, THE REMAINING THICKNESS OF THE FLAMEPROOF ENCLOSURE WILL BE AT LEAST ONE-THIRD OF THE NOMINAL DIAMETER OF THE SCREW WITH A MINIMUM OF 3.0mm.
3. ITEM No. 16 COATED BOTH SIDES APPROX 12.0mm FROM OUTER EDGE (WITH 10.0mm MIN.) BEFORE ASSEMBLY, ITEMS CLAMPED TOGETHER DURING ASSEMBLY.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS 1299 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO 262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS $\geq$ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT $>$ H13 (ISO 286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE R_a DOES NOT EXCEED 6.3 μ m (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 TORQUE OF 10.0 Nm FOR CAP SCREWS.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTNERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTNERS IS 4.6.

MARKING DETAILS

M.I.P.
AT4#4R@
425A
VOLTS 6=660V
1=1100V
@ NOSE CONE S=ST. STEEL
BLANK=BRONZE
IP66
Ex d I Mb
IECEx TSA 13.0005X
ANZEx 13.3002
TYPE A
S.O xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
31	1	AH117117	M5x10 BUTTON HD CAP SCREW	ST. STEEL
30	1	3340	INTERIOR MOUNTING	NEOPRENE
29	1	AH201405	CONTACT SOCKET SPRING	ST. STEEL
28	1	3138-3	PILOT SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
27	1	AH009834	10-24 UNC X 11/4" SKT HD SCREW	ST. STEEL
26	1	3569-1	PILOT THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997
25	1	A1019048	O-RING BS 144	NITRILE
24	3	AH117113	M10 X 40 SKT HD SET SCREW (ISO4762)	ST. STEEL
23	1	4000B	PHASE CONDITION BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
22	1	3115	SPACER	PVC
21	1	F-AX000400	HANDLE	NYLON
20	1	AH002987	1/4" X 7/8" SELLOCK PIN	STEEL-ZINC PL.
19	2	AH009251	3/16" X 5/8" X 18 WASHER	STEEL-ZINC PL.
18	2	AH151033	M5 X 16 SKT HD CAP SCREW	ST. STEEL
17	1	3103	INDICATOR LIGHT PANEL	-
16	1	3105	INSPECTION WINDOW	LEXAN MR10
15	4	AH151015	M5 X 40 SKT HD CAP SCREW (ISO4762)	ST. STEEL
14	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
13	1	AX004076	RATING PLATE	BRASS
12	1	3198-1	INSPECTION WINDOW RETAINING RING	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
11B	1	3173	RTU CAP CASTING (OPTIONAL)	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
11A	1	3197-1	CAP CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
10	2	AH009380	3/16" STAR WASHER	STEEL-ZINC PL.
9	1	AH151019	M4 NUT	STEEL-ZINC PL.
8	1	AH009273	1/4" X 1/2" X 18 WASHER	STEEL-ZINC PL.
7	1	AH151016	M4 X 20 CH HD SCREW	BRASS
6	1	4576-1	EARTH LEAD 6mm ² WITH PILOT DIODE	PVC INSUL. CABLE / IN4007 DIODE
5	3	3347	MAIN THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
4	3	AH009868	1/4" UNC X 21/4" SKT HD SCREW	ST. STEEL
3	3	201-300-1	MAIN SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
2	6	AH201363	CONTACT SOCKET SPRING	ST. STEEL
1B	1	3342SS	BODY CASTING	ST. STEEL 303 MIN. GRADE
1A	1	3342B	BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

REVISION

REV.	DATE	ZONE	REV.
1	21/09/16	I	E
2	11/02/13	I	D
3	04/02/99	I	C
4	15/01/96	I	B

DRA No. 16027: DRAWING AMENDMENTS
DRA No. 10060 - REDRAWN ON NEW CMI TEMPLATE, REDESIGN NEW PLUS, REMOVED NOTES.
ADDED NEW NOTES.
DRA No. 9710 - ADDED INSULATING TUBES
REDRAWN ON CAD NO CHANGE

cmi

Electrical Products

A division of CMI Operations Pty Ltd

GENERAL TOLERANCE ± 0.5 UNLESS OTHERWISE SPECIFIED

MATERIAL SEE TABLE

FINISH COLOUR CODING AS PER AS 2700

DESCRIPTION 425A 660/1100V RESTRAINED PHASE CONDITION INDICATOR

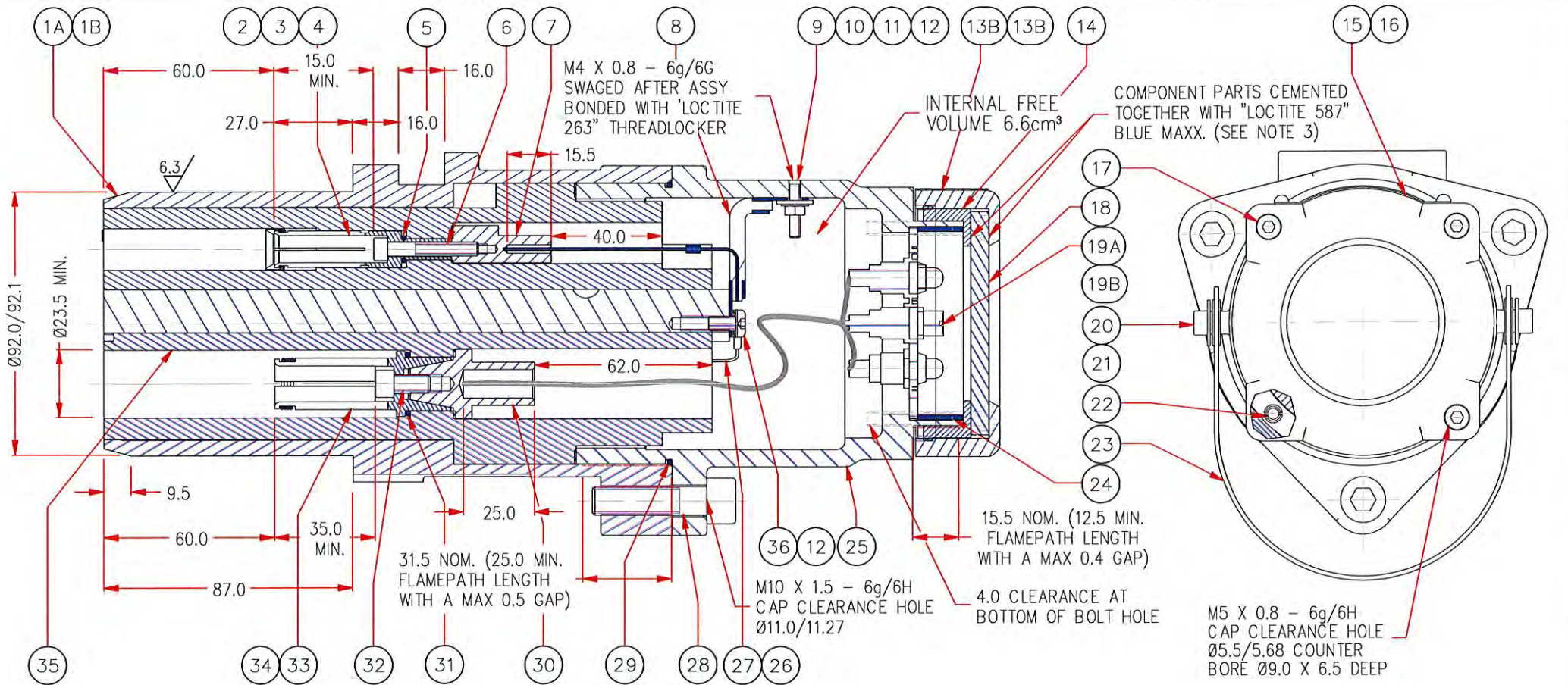
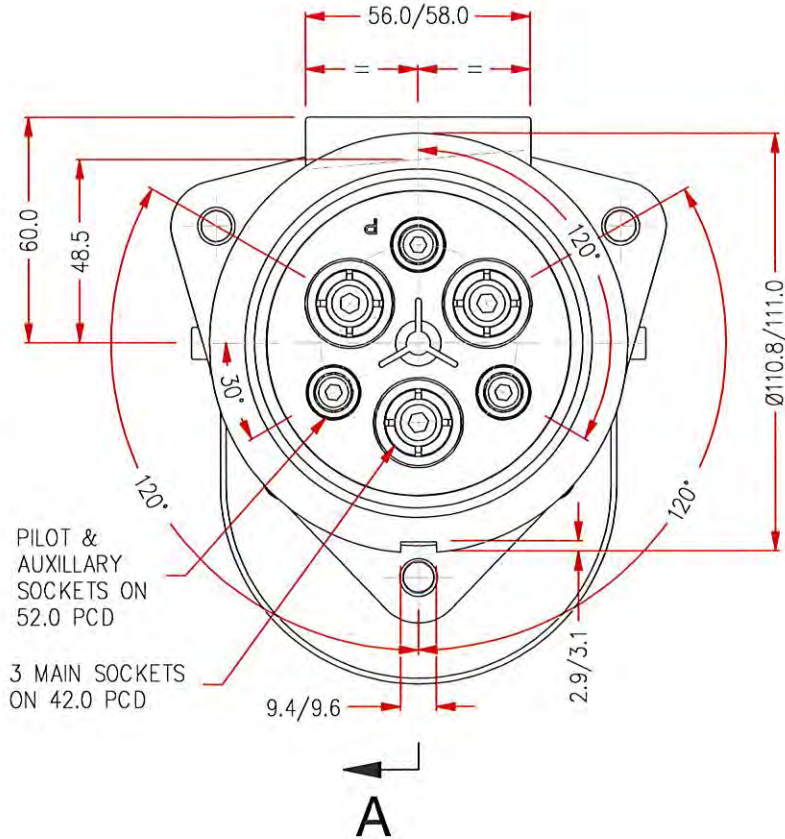
SCALE NTS

DATE 16/01/96

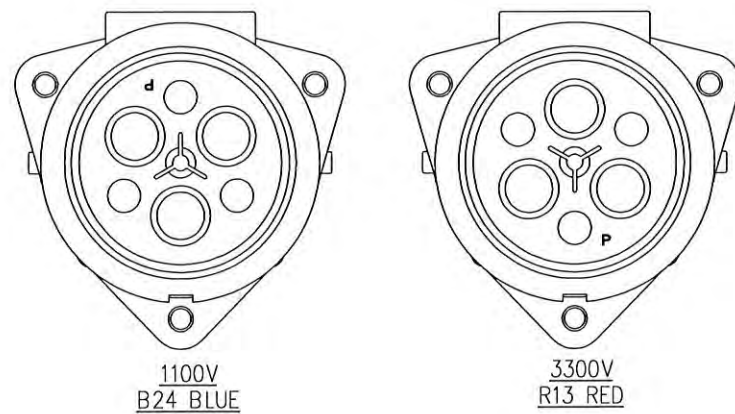
CHECKED APPROVED *MP*

DRAWN DMC

DRAWING No. F-306



SECTION A-A



CONFIGURATION

NOTES

MARKING DETAILS

M.I.P.
AT3#6R@
300A
VOLTS 1=1100V
3=3300V
@ NOSE CONE S=ST. STEEL
BLANK=BRONZE
IP66
Ex d I Mb
IECEx TSA 13.0005X
ANZEx 13.3002
TYPE A
S.O xxxxx-xx
WARNING
DO NOT SEPARATE WHEN ENERGIZED

1. MINIMUM WALL THICKNESS 3.0mm UNLESS OTHERWISE SPECIFIED.
2. IN CASE OF HOLES FOR SCREWS, THE REMAINING THICKNESS OF THE FLAMEPROOF ENCLOSURE WILL BE AT LEAST ONE-THIRD OF THE NOMINAL DIAMETER OF THE SCREW WITH A MINIMUM OF 3.0mm.
3. ITEM No. 18 COATED BOTH SIDES APPROX 12.0mm FROM OUTER EDGE (WITH 10.0mm MIN.) BEFORE ASSEMBLY, ITEMS CLAMPED TOGETHER DURING ASSEMBLY.
4. THE SPECIFICATIONS, DIMENSIONS AND RATINGS COMPLY WITH AS/NZS 1299 ELECTRICAL EQUIPMENT FOR MINES AND QUARRIES.
5. SPECIAL FASTENERS COMPLY WITH ISO 262 WITH A TOLERANCE FIT 6g/6H AND THREAD ENGAGEMENT IS $\geq$ THE MAJOR DIAMETER AND THE CLEARANCE HOLE IS NOT $>$ H13 (ISO 286-2).
6. ALL MACHINED FLAMEPATH SURFACES AVERAGE R_a DOES NOT EXCEED $6.3\mu m$ (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 TORQUE OF 10.0 Nm FOR CAP SCREWS.
9. MINIMUM PROPERTY CLASS FOR STAINLESS STEEL FASTNERS IS A*-70.
10. MINIMUM PROPERTY CLASS FOR MILD STEEL FASTNERS IS 4.6.

This document forms part of the certification package issued by TestSafe Australia
Certificate Numbers IECEx TSA 13.0005X-3
and ANZEx 13.3002-3

THIS DRAWING REMAINS THE PROPERTY OF MINTO INDUSTRIAL PRODUCTS AND MUST NOT BE LENT OR COPIED.

PART No.
AT316R / AT316RS
AT336R / AT336RS



DO NOT SCALE DRAWING.
DIMENSIONS IN MILLIMETRES.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
36	1	AH117117	M5X10 BUTTON HD CAP SCREW	ST. STEEL
35	1	4034	INTERIOR MOUNTING	SUPERDHW
34	6	AH201361	CONTACT SOCKET SPRING	ST. STEEL
33	3	3961	MAIN SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
32	3	AH009857	1/4" UNC X 1/2" SKT HD SCREW	ST. STEEL
31	3	AH190332	O-RING ID 18.77 X SECT 1.78	NITRILE
30	3	3962	MAIN THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
29	1	AH190446	O-RING BS 144	ST. STEEL
28	3	AH117113	M10 X 40 SKT HD SET SCREW (ISO4762)	ST. STEEL
27	2	AX022400	127/800 DIODE	IN4007 DIODE
26	2	CH430ET	RING TERMINATION	BRASS-TIN PL.
25	1	4000B	PHASE CONDITION BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
24	1	3115	SPACER	PVC
23	1	F-AX000400	HANDLE	NYLON
22	1	AH002987	1/4" X 7/8" SELOCK PIN	STEEL-ZINC PL.
21	2	AH009251	3/16" X 5/8" X 18 WASHER	STEEL-ZINC PL.
20	2	AH151033	M5 X 16 SKT HD CAP SCREW	ST. STEEL
19B	1	3103	1100V INDICATOR LIGHT PANEL	-
19A	1	4124	3300V INDICATOR LIGHT PANEL	-
18	1	3105	INSPECTION WINDOW	LEXAN MR10
17	4	AH151015	M5 X 40 SKT HD CAP SCREW (ISO4762)	ST. STEEL
16	2	AH009788	3/16" X No.4 U-DRIVE SCREW	STEEL-ZINC PL.
15	1	AX004076	RATING PLATE	BRASS
14	1	3198-1	INSPECTION WINDOW RETAINING RING	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
13B	1	3197-1	CAP CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
13A	1	3173	RTU CAP CASTING (OPTIONAL)	FREE CUTTING BRASS C38500 TO AS/NZS 1567-1997
12	2	AH009380	3/16" STAR WASHER	STEEL-ZINC PL.
11	1	AH151019	M4 NUT	STEEL-ZINC PL.
10	1	AH009273	1/4" X 1/2" X 18 WASHER	STEEL-ZINC PL.
9	1	AH151016	M4 X 20 CH HD SCREW	BRASS
8	1	4576-1	EARTH LEAD 6mm ² WITH PILOT DIODE	PVC INSUL. CABLE / IN4007 DIODE
7	3	3589-1	PILOT THIMBLE	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997
6	3	AH009834	10-24 UNC X 1 1/4" SKT HD SCREW	NITRILE
5	3	AH190330	O-RING ID 6.07 X SECT 1.78	ST. STEEL
4	3	3138-2	PILOT SOCKET	(COPPER) C14700 OR C11000 OR C10100 TO AS/NZS 1567-1997 SILVER PL. TO AS 1856-2004 CuAg 08
3	3	AH201405	CONTACT SOCKET SPRING	ST. STEEL
2	3	4536	PILOT SOCKET RETAINING RING (OPTIONAL)	ERTACETAL C
1B	1	3342-55S	BODY CASTING	ST. STEEL 303 MIN. GRADE
1A	1	3342-5B	BODY CASTING	HIGH TENSILE BRASS - NOTE 7 C86500 TO AS 1565-1996
Ports List				

REVISION	DATE	ZONE	REV.	DESCRIPTION
1	10/09/18	-	-	10/09/18
2	21/09/16	-	-	21/09/16
3	01/02/13	-	-	01/02/13
4	01/08/94	-	-	01/08/94
GENERAL TOLERANCE ± 0.5 UNLESS OTHERWISE SPECIFIED				
MATERIAL SEE TABLE				
FINISH COLOUR CODING AS PER AS 2700				
DESCRIPTION 300A 1100/3300V 6P RESTRAINED PHASE COND. INDICATOR				
SCALE NTS DATE 03/09/93				
DRAWN DMC CHECKED APPROVED				
DRAWING No. F-423				

Termination and Maintenance Instructions for 300/425 AMP 660/1100/3300 VOLT Restrained Range

The equipment is certified IECEx TSA 13.0005X and ANZEx 13.3002 (maximum operating temperature 150°C) and is designed to AS/NZS1299, IEC 60079-0 & IEC 60079-1.

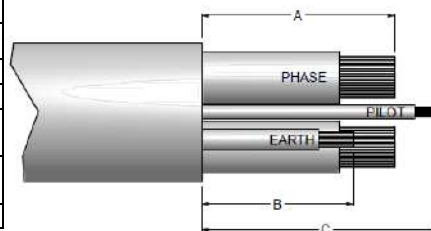
It is recommended that the equipment is overhauled at intervals that do not exceed the requirements of AS/NZS2290.1.

Maintain to the requirements of AS/NZS3800 & AS/NZS1747 by suitably competent persons.

Installation

- Confirm components suitable for application e.g. thimbles and grommets suitable for the conductors and cable.
- Plug fitting cable preparation.
 1. Slide the gland cap, neoprene cone and plug body along the cable.
 2. Prepare the cable to the dimensions given in the strip back table (below).
 3. Crimp or solder the thimbles to the phase, pilot and earth cores.

Strip Back Dimensions (mm)			
	A (Phase)	B (Earth)	C (Pilot)
AF314R3 / AF364R3 / AF414R3 / AF464R3	110	155	155
AF314R4 / AF364R4 / AF414R4 / AF464R4	130	180	120
AF334S3 / AF434S3 / AF316R3 / AF336R3 / AF416R3 / AF436R3	128	120	130
AF334S4 / AF434S4 / AF316R4 / AF336R4 / AF416R4 / AF436R4	158	150	100
AF314S / AF364S	145	165	120



NB. Cables with semi conductive phase screening shall have the semi conductive screen removed back to the outer sheath.

- Plug fitting
 4. Fit the conductors to the appropriate location securing in place with screw through socket where appropriate
 5. Assemble the plug, ensuring the interior rotation conforms to AS/NZS1299
 6. Then fit dust cap (F-264L). Care should be taken not to damage the earth sleeve flamepath.
 7. Slide the neoprene cone into position and bolt the gland cap firmly to the body.
Minimum torque of gland cap and nuts screws is 25.0Nm.
Armoured Gland threaded studs are to be fixed into position using Loctite thread locker.
 8. Test as per the requirements of AS/NZS1747.
- Connection of Protective Earthing Conductors
 - This range of plugs & receptacles has facility for earthing conductors up to 95 mm².
 - It is the responsibility of the installer to determine and fit the correct sized earth conductors.

NB. Consideration should be given to using a strain relief anchor on the cable to prevent the cable from being pulled from the back of the plug, if cable is subjected to tension.

- Receptacle fitting
 - a. For Receptacle mounting dimensions refer to AS/NZS1299. The flange flamepath used to assemble the receptacle and Exd enclosure with minimum width 12.5mm and maximum gap 0.4mm.
 - b. Terminate conductors as per point 3 above.
 - c. Fit the conductors to the appropriate location securing in place the phase thimble with screw provided through the main pin & securing in place the pilot thimble with the threaded pilot pin.
 - d. Attach to enclosure via special fasteners.
The special fasteners and/or nuts shall be of minimum grade 4.6 (yield stress 240MPa)

This brochure is distributed with the understanding that the authors and editors are not responsible for the results of any actions taken on the basis of the information in this work, or any errors or omission. Further, Minto Industrial Products is not engaged in rendering professional services. Minto Industrial Products expressly disclaims all and any liability to any person in respect of anything and of the consequences of anything done or omitted to be done by any such person in reliance whether whole or partial of the whole or any part of the contents of this publication. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of Minto Industrial Products.

Use

- Isolate power before connecting or disconnecting.

Assembly

- Ensure sockets are clean and serviceable.
 - Correct pin alignment.
 - Insert plug using receptacle operating mechanism.
- NB. For quick release mechanism, ensure the locking button is fully home.

Disassembly

- To remove plug from receptacle utilise the operating mechanism.
- NB. For quick release, lift the locking button first.
- Fit dust cover to plug and receptacle.

Maintenance

- Inspection shall include cleanliness and compliance with certification documentation.
- Check as per AS/NZS2290.1

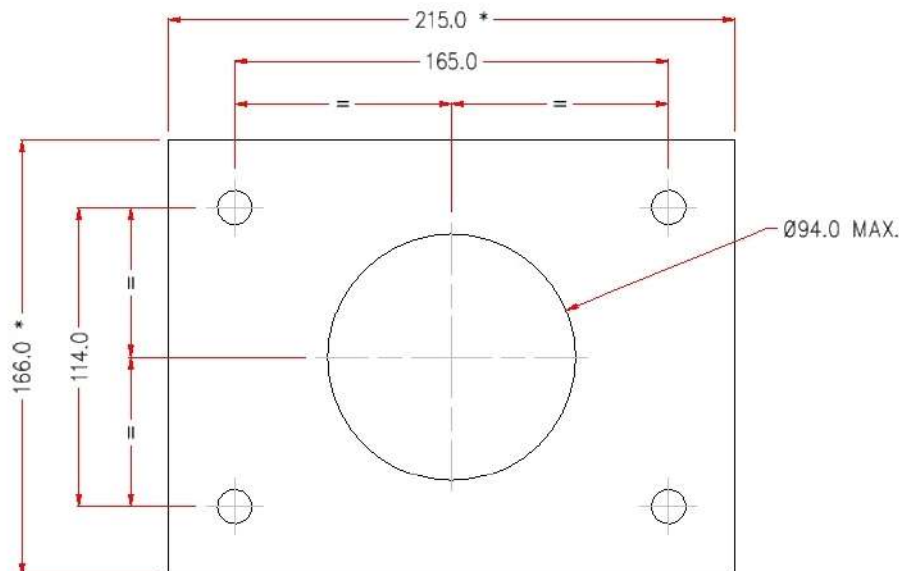
Overhaul and Repair

- To be carried out by suitable workshop.

Conditions of use

- Some flameproof joint (flamepath) have dimensions that are different than the values given in table1 of IEC60079.1. Refer to the manufacture's drawings for details.
- The special fasteners used to assemble the plug and gland shall be minimum grade 4.6 (yield stress 240MPa) or for stainless steel minimum grade A*-70 (Yield stress 450MPa).
- Ambient Operating temperature range -20°C to +40°C and average temperature over 24 hours is not to exceed 35°C

Mounting Details



* Dimensions shown is the Enclosure Machining Area.
Untoleranced dimensions ± 0.25

NB. Receptacle and Gland Adaptor mounting fasteners are to comply with AS/NZS 60079.0 and AS/NZS 60079.1

This brochure is distributed with the understanding that the authors and editors are not responsible for the results of any actions taken on the basis of the information in this work, or any errors or omission. Further, Minto Industrial Products is not engaged in rendering professional services. Minto Industrial Products expressly disclaims all and any liability to any person in respect of anything and of the consequences of anything done or omitted to be done by any such person in reliance whether whole or partial of the whole or any part of the contents of this publication. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of Minto Industrial Products.