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REPORT

on

MOTOR CONTROLLERS, MAGNETIC

LS ELECTRIC CO LTD
Chung Cheong Bug-Do, Korea

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DESCRIPTION

PRODUCT COVERED:

USL, CNL Industrial Control Equipment, Auxiliary Devices. Open Type Thermal Overload Relay MT Series MT, followed by -32, -63, -95 or -150, followed by /2H, /3H, /3K, /F2, /F3, /FK /3D, /FD.

Accessory mounting unit UZ Series UZ, followed by -32, -63, -95 and -150.

GENERAL:

These devices are thermal overload relays for protecting single and three phase motors by overload current.

Surrounding Air Temperature Rating: 40 °C

ELECTRICAL RATINGS:

Ambient compensated, single or three phases, adjustable, Class 10 and Class 20 thermal overload relays. Tripping currents are 125 percent of the dial settings.

Short Circuit: See the short circuit rating table as shown below.

O.L. Relay Model	Max. Current	Voltage (Vac)	Short Circuit Current	Protective Device
				Fuse
*MT-32	0.16 - 40 A	600	5,000	See Ill. 1
MT-63	6 - 50 A	600	5,000	See Ill. 1
MT-63	65 A	600	10,000	See Ill. 1
MT-95	10 - 50 A	600	5,000	See Ill. 1
MT-95	65 - 100 A	600	10,000	See Ill. 1
MT-150	36 - 50 A	600	5,000	See Ill. 1
MT-150	65 - 150 A	600	10,000	See Ill. 1

Rated current ranges of MT-32 series

No.	Rated current ranges (A)	Maximum rated current (A)	Rated current(A) of bimetallic nonadjustable type	Trip Class		Contactor
				Class 10	Class 20	
1	0.1 ~ 0.16	0.16	0.1, 0.14, 0.16, 0.21, 0.25, 0.33, 0.4, 0.52, 0.63, 0.82, 1, 1.3, 1.6, 2.1, 2.5, 3.3, 4, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 10, 11, 12, 13, 15, 16, 18, 19, 21.5, 22, 25, 27, 28, 32, 34, 40	MT-32/2H MT-32/3H MT-32/3K MT-32/F2 MT-32/F3 MT-32/FK	None	MC-9 MC-12 MC-18 MC-25 MC-32 MC-25a MC-32a MC-35a MC-40a
2	0.16 ~ 0.25	0.25				
3	0.25 ~ 0.4	0.4				
4	0.4 ~ 0.63	0.63				
5	0.63 ~ 1	1				
6	1 ~ 1.6	1.6				
7	1.6 ~ 2.5	2.5				
8	2.5 ~ 4	4				
9	4 ~ 6	6				
10	5 ~ 8	8				
11	6 ~ 9	9				
12	7 ~ 10	10				
13	9 ~ 13	13				
14	12 ~ 18	18				
15	16 ~ 22	22				
16	18 ~ 25	25				
17	22 ~ 32	32				
18	28 ~ 40	40				
					MT-32/3D MT-32/FD	

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ELECTRICAL RATINGS (CONT'D):

*Rated current ranges of MT-63 series

* No.	Rated current ranges (A)	Maximum rated current (A)	Trip Class		Contactor
			Class 10	Class 20	
1	4 ~ 6	6	MT-63/2H MT-63/3H MT-63/3K	MT-63/3D	MC-35 MC-40 MC-50 MC-63 MC-50a MC-65a
2	5 ~ 8	8			
3	6 ~ 9	9			
4	7 ~ 10	10			
5	9 ~ 13	13			
6	12 ~ 18	18			
7	16 ~ 22	22			
8	18 ~ 25	25			
9	24 ~ 36	36			
10	28 ~ 40	40			
11	34 ~ 50	50			
12	45 ~ 65	65			

*Rated current ranges of MT-95 series

* No.	Rated current ranges (A)	Maximum rated current (A)	Trip Class		Contactor
			Class 10	Class 20	
1	7 ~ 10	10	MT-95/2H MT-95/3H MT-95/3K	MT-95/3D	MC-65 MC-75 MC-85 MC-95 MC-75a MC-85a MC-100a
2	9 ~ 13	13			
3	12 ~ 18	18			
4	16 ~ 22	22			
5	18 ~ 25	25			
6	24 ~ 36	36			
7	28 ~ 40	40			
8	34 ~ 50	50			
9	45 ~ 65	65			
10	54 ~ 75	75			
11	63 ~ 85	85			
12	70 ~ 95	95			
13	80 ~ 100	100			

*

Rated current ranges of MT-150 series

No.	Rated current ranges (A)	Maximum rated current (A)	Trip Class		Contactor
			Class 10	Class 20	
1	24 ~ 36	36	MT- 150/2H MT- 150/3H MT- 150/3K	MT- 150/3D	MC- 130 (a) MC- 150 (a)
2	28 ~ 40	40			
3	34 ~ 50	50			
4	45 ~ 65	65			
5	54 ~ 75	75			
6	63 ~ 85	85			
7	80 ~ 105	105			
8	95 ~ 130	130			
9	110 ~ 150	150			

Auxiliary contact rating

1 NC (Normally Close) + 1 NO (Normally Open)
C600, R300

Trip Class of MT series are as follows;

Class 10: MT-32/2H, MT-32/3H, MT-32/3K, **MT-32/F2**, **MT-32/F3**, **MT32/FK**,
MT-63/2H, MT-63/3H, MT-63/3K, MT-95/2H, MT-95/3H, MT-95/3K,
MT-150/2H, MT-150/3H, MT-150/3K.

Class 20: MT-32/3D, **MT-32/FD**, MT-63/3D, MT-95/3D, MT-150/3D.

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NOMENCLATURE:

M T - 32 / 3K
I II III

I. Designation:

MT - Thermal overload relay

II. Rating

32 - 40 A max
63 - 65 A max
95 - 100 A max
150 - 150 A max

III. Type of thermal overload relay

2H - **Adjustable type, Non-differential type with 2 bimetal elements**
(Class 10)

3H - **Adjustable type, Non-differential type with 3 bimetal elements**
(Class 10)

3K - **Adjustable type, Differential type with 3 bimetal element** (Class 10)

F2 - **Non-Adjustable type, Non-differential type with 2 bimetal elements** (Class 10)

F3 - **Non-Adjustable type, Non-differential type with 3 bimetal elements** (Class 10)

FK - **Non-Adjustable type, Differential type with 3 bimetal elements** (Class 10)

3D - **Adjustable type, Differential type with 3 bimetal elements** (Class 20)

FD - **Non-Adjustable type, Differential type with 3 bimetal elements** (Class 20)

*TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

- * USL - Indicates **that products designated UL have been investigated using US requirements as noted in the Test Record.**
- * * CNL - Indicates **that products designated C-UL have been investigated using Canadian requirements as noted in the Test Record.**


General - These devices are single or three phases, ambient compensated, Class 10, 20 thermal overload relays. Differential type models provide phase loss protection. These models can be assembled with separate mounting kits.

*

The logo for LS ELECTRIC features the letters 'LS' in a large, bold, blue font with a red arrow pointing upwards and to the right from the top of the 'S'. To the right of 'LS', the word 'ELECTRIC' is written in a smaller, blue, sans-serif font.

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This page Replaces page 4A

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CONSTRUCTION DETAILS:

General - Reference may be made to accompanying photographs and itemized descriptive pages for the essential details of construction.

Corrosion Protection - All parts of corrosion resistant materials or painted or plated as corrosion protection

Tolerance - Unless specified otherwise, the indicated dimensions are nominal.

* Spacings - Spacing were evaluated per clause 8.1.4 of **Standard as noted in the Test Record.**

* Marking - Ink-stamped on cover or adhesive backed label (PGDQ2) secured to the device with followings;

1. Listed company name, trademark or file number,
2. Model number or catalogue number,
3. Electrical ratings,
4. Short Circuit Current Rating - "Suitable For Use On A Circuit Capable Of Delivering Not More Than _____ rms Symmetrical Amperes, 600 Volts Maximum, _____ Use Fuse only " 5. Field Wiring Terminals must be marked for tightening torques, wire size ranges in AWG, conductor material and insulation temperature rating such as " _____ lb-in., _____ AWG, Use 60/75°C, CU Wire Only" or equivalent.

Field wiring terminals must be marked for tightening torques, wire size ranges, conductor material, and insulation temperature rating.

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Torque and Wire of Terminals

*MT-32

* SCREW size	TORQUE (lb.in)	Wire cross section (mm ²)
M4 (Other ratings)	20	1 ~ 6
M5 (28-40 A)	20	1 ~ 10

*MT-63

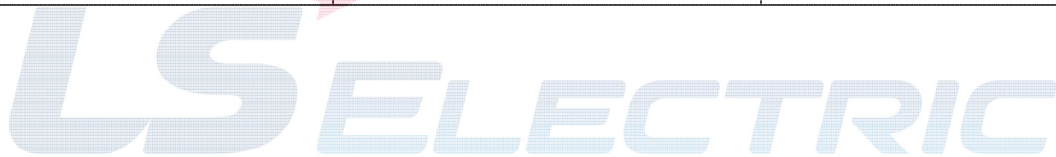
* SCREW size	TORQUE (lb.in)	Wire cross section (mm ²)
M6	35	1 ~ 16

*MT-95

* SCREW size	TORQUE (lb.in)	Wire cross section (mm ²)
M8	53	1 ~ 35

MT-150

SCREW size	TORQUE (lb.in)	Wire cross section (mm ²)
M8	80	10 ~ 50



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Alternate - Same as above, except any PGJI2 printing material suitable for application to the surface involved; the ink and printer used; exposure conditions and temperature of the product.

MT-150 - FIG. 1

General - It shows Auxiliary Case Assembly parts of Thermal Overload Realy, model MT series. Model MT-150 represents all other models for Auxiliary parts.

1. Case, Aux - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated, overall approx. 45 by 43.8 by 33 mm, 1.5 mm thickness.

Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)

Alternatre - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated, overall approx. 45 by 43.8 by 33 mm, 1.5 mm thickness.

Complies with DSR. (V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)

Alternatre - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated, overall approx. 45 by 43.8 by 33 mm, 1.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)

Alternatre - R/C (QMFZ2), LG LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated, overall approx. 45 by 43.8 by 33 mm, 1.5 mm thickness.

Complies with DSR. (V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, Elec. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 0, Complies with DSR.

Alternate - R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, rated V-0, Elec. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1, Complies with DSR.

MT-150 - FIG. 1 (CONT'D)

2. Dial - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, overall approx. 12 by 9.3 mm, 3.3 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 12 by 9.3 mm, 3.3 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 12 by 9.3 mm, 3.3 mm thickness.

Alternate - R/C (QMFZ2), BASF Performance Polyamides Korea Co Ltd (E78648), Type 2413GW, rated V-0, 120°C, Overall approx. 12 by 9.3 mm, 3.3 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-150 - FIG. 1 (CONT'D)

3. Holder, Aux - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 6.8 by 27.2 by 17.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 6.8 by 27.2 by 17.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 6.8 by 27.2 by 17.2 mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMF22), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-150 - FIG. 1 (CONT'D)

4. Link, Stop button - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 13 by 12.8 by 15.3 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 13 by 12.8 by 15.3 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 C, Overall approx. 13 by 12.8 by 15.3 mm, 1.5 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMF22), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-150 - FIG. 1 (CONT'D)

5. Link Adjust - R/C (QMF22), BASF Performance Polyamides Korea Co Ltd (E78648), Type 1021GF6, rated HB, 65 °C, Overall approx. 12 by 28.3 by 6.3 mm, 2.8 mm thickness.

Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 12 by 28.3 by 6.3 mm, 2.8 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

6. Compensation - R/C (QMFZ2), TORAY INDUSTRIES INC (E41797), Type A400M, rated V-0, 200°C, Overall approx. 17.4 by 15.5 by 8.2 mm, 1.4 mm thickness.

Alternate - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C.

7. Button, Reset - R/C (QMFZ2), LG Chemical (E67171), Type N109-LD, rated HB, 110 °C, Overall approx. 6.6 by 26.6 mm, 4.4 mm thickness.

Alternate - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 6.6 by 26.6 mm, 4.4 mm thickness.

Alternate - R/C (QMFZ2), LG CHEM (TIANJIN) ENGINEERING PLASTICS CO LTD (E302314), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 6.6 by 26.6 mm, 4.4 mm thickness.

Alternate - R/C (QMFZ2), BASF Performance Polyamides Korea Co Ltd (E78648), Type 2413GW, rated V-0, 120°C, Overall approx. 6.6 by 26.6 mm, 4.4 mm thickness.

Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-150 - FIG. 1 (CONT'D)

8. Button, Stop - R/C (QMF22), LG Chemical (E67171), Type N109-LD, rated HB, 110 °C, Overall approx. 20.2 by 36.2 by 12.2 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), KOREA ENGINEERING PLASTICS CO LTD (E120354), Type F20-(xx)(+)(r1), rated HB, 110°C, Overall approx. 20.2 by 36.2 by 12.2 mm, 2 mm thickness.

Alternate - R/C (QMFZ2/8), BASF Performance Polyamides Korea Co Ltd (E78648), Type 2413GW, rated V-0, 120°C.

9. Holder, Trip - R/C (QMF22), LG Chemical (E67171), Type N109-LD, rated HB, 110 °C, Overall approx. 10.9 by 10.4 by 4.5 mm, 1.2 mm thickness.

Alternate - R/C (QMFZ2), KOREA ENGINEERING PLASTICS CO LTD (E120354), Type F20-(xx)(+)(r1), rated HB, 110°C, Overall approx. 10.9 by 10.4 by 4.5 mm, 1.2 mm thickness.

MT-150 - FIG. 1 (CONT'D)

10. Bimetal, Aux - Cu-Ni-Mn-Fe alloy, Overall approx. 5 by 20 by 0.3 mm, 0.3 mm thickness.
11. 95 Aux, Terminal - Copper Alloy, Overall approx. 16.8 by 17.5 by 20.3 mm, 1 mm thickness.

MT-150 - FIG. 1 (CONT'D)

12. 96 Aux, Terminal - Copper Alloy, Overall approx. 27.2 by 11.4 by 21.1 mm, 1 mm thickness.
13. 97 Aux, Terminal - Copper Alloy, Overall approx. 19.7 by 11.6 by 22.7 mm, 1 mm thickness.
14. 98 Aux, Terminal - Copper Alloy, Overall approx. 8.6 by 8.8 by 9.8 mm, 1 mm thickness.
15. Tip - Silver Alloy, Overall approx. 2.5 diameter, 1 mm thickness.
16. Cover, Aux - R/C (QMF22), SABIC JAPAN L L C (E207780), Type 143, rated HB, 120 °C, Overall approx. **41.7** by 33.5 by 14.1 mm, 1.1 mm thickness.

Alternate - R/C (QMF22), CHEIL INDUSTRIES INC (E115797), Type ABS UT-0510, rated HB, 60 °C, Overall approx. **41.7** by 33.5 by 14.1 mm, 1.1 mm thickness.

Alternate - R/C (QMF22), COVESTRO DEUTSCHLAND AG [PC RESINS] (E41613), Type 2805 + (z) (f1), rated V-2, 125°C, Overall approx. **41.7** by 33.5 by 14.1 mm, 1.1 mm thickness.

Alternate - Same as above except R/C (QMF22), SAMYANG CORPORATION (E121254), Type 3022IR, rated V-2, 80 °C.

Alternate - Same as above except R/C (QMF22), SABIC INNOVATIVE PLASTICS US L L C (E121562), Type 943A. (ELEC. RTI: 105 °C)

MT-150 - FIG. 1 (CONT'D)

17. Cover, Aux top - R/C (QMF22), SABIC JAPAN L L C (E207780), Type 143, rated HB, 120 °C, Overall approx. 45 by 20.2 by 1.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), CHEIL INDUSTRIES INC (E115797), Type ABS UT-0510, rated HB, 60 °C, Overall approx. 45 by 20.2 by 1.2 mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMFZ2), SAMYANG CORPORATION (E121254), Type 3022IR, rated V-2, 80 °C.

Alternate - Same as above except R/C (QMFZ2), SABIC INNOVATIVE PLASTICS US L L C (E121562), Type 943A. (ELEC. RTI: 105 °C)

18. Cover, Aux terminal - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 45 by 9.1 by 11.9 mm, 1 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 45 by 9.1 by 11.9 mm, 1 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 45 by 9.1 by 11.9 mm, 1 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type N-0020N-V0, Unfilled Nylon, generic material RTI: 105 °C. (V-2, Elec RTI: 65 °C)

MT-32 + UZ-32 - FIG. 2 and FIG.3

General - UZ-32 is separate mounting kits for MT-32. FIG. 2 represents an external view of model MT-32 + UZ-32 and FIG. 3 represents an internal view of model MT-32 + UZ-32.

1. Cover, Top - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 45 by 19.6 by 28.6 mm, 1.3 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 45 by 19.6 by 28.6 mm, 1.3 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 45 by 19.6 by 28.6 mm, 1.3 mm thickness.

Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 45 by 19.6 by 28.6 mm, 1.3 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-32 + UZ-32 - FIG. 2 and FIG.3

2. Cover, Back - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 45 by 82.5 by 17.6 mm, 1.5 mm thickness.
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, Overall approx. 45 by 82.5 by 17.6 mm, 1.5 mm thickness.
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130°C, Overall approx. 45 by 82.5 by 17.6 mm, 1.5 mm thickness.
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120°C, Overall approx. 45 by 82.5 by 17.6 mm, 1.5 mm thickness.
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, 120 °C.

MT-32 + UZ-32 - FIG. 2 and FIG.3 (CONT'D)

3. Case, Heater - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated Overall approx. 45 by 48 by 51.6 mm, 1.8 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 45 by 48 by 51.6 mm, 1.8 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 45 by 48 by 51.6 mm, 1.8 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 2)
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 45 by 48 by 51.6 mm, 1.8 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 120°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, Elec. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 0, Complies with DSR.**
- Alternate - Same as above except R/C (QMFZ2), NYTEX COMPOSITES CO LTD (E135714), Type MG-0123B-V0-OMR, Rated V-0, Elec. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1, Complies with DSR.**

MT-32 + UZ-32 - FIG. 2 and FIG.3 (CONT'D)

4. Terminal, Main - Steel plated, Overall approx. 12.6 by 30 by 30.1 mm, 1.6 mm thickness.

Alternate - Copper Alloy, Overall approx. 12.6 by 30 by 30.1 mm, 2.0 mm thickness.

5. Connector - Copper, Overall approx. 2.3 by 53.4 by 45 mm, 2.3 mm thickness.

MT-32 + UZ-32 - FIG. 2 and FIG.3 (CONT'D)

6. Bimetal - Cu-Ni-Mn-Fe alloy, Overall approx. 7 by 43 by 1 mm, 1 mm thickness.
7. Lever - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C, Overall approx. 9.6 by 19 by 3 mm, 2.2 mm thickness.
8. Shifter, B - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C, Overall approx. 31.1 by 8 by 8 mm, 2 mm thickness.
9. Shifter, A - R/C (QMF22), Hexion GmbH (E61040), Phenolic, Type PF85, Overall approx. 31.6 by 5.7 by 8 mm, 1.3 mm thickness. (HB, Elec. RTI: 150 °C)

Alternate - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C.
10. Cover, Terminal - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 45 by 14.5 by 17 mm, 1.7 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 45 by 14.5 by 17 mm, 1.7 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 45 by 14.5 by 17 mm, 1.7 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

Alternate - Same as above except R/C (QMF22), SHANGHAI NYTEX COMPOSITE PRODUCTS CO LTD (E238882), Type NG-3025N-V0, Unfilled Nylon, generic material RTI: 105 °C. (V-2, Elec RTI: 65 °C)

MT-32 + UZ-32 - FIG. 2 and FIG.3 (CONT'D)

11. Unit, Mounting - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 45 by 95.8 by 93 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 45 by 95.8 by 93 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 45 by 95.8 by 93 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130 °C, Overall approx. 45 by 95.8 by 93 mm, 1.5 mm thickness.

Alternate - R/C (QMF22), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120 °C, Overall approx. 45 by 95.8 by 93 mm, 1.5 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-32 + UZ-32 - FIG. 2 and FIG.3 (CONT'D)

12. Terminal, Mounting - Steel plated, Overall approx. 12.6 by 10.4 by 1.6 mm, 1.6 mm thickness.

Alternate - Copper Alloy, Overall approx. 12.6 by 10.4 by 1.6 mm, 2.0 mm thickness.
13. Spring, Latch - Steel plated, Overall approx. 43.3 by 12.1 by 3.6 mm, 1.3 mm thickness.

MT-63 + UZ-63 - FIG. 4 and FIG.5

General - UZ-63 is separate mounting kits for MT-63. FIG. 4 represents an external view of model MT-63 + UZ-63 and FIG. 5 represents an internal view of model MT-63 + UZ-63. There are Lug type and Screw type. The difference of lug and screw type is connecting shape of main terminal and connector. Except of two parts, all parts of screw type are same as those of lug type.

1. Cover, Top - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 55 by 19.5 by 45.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 55 by 19.5 by 45.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, Overall approx. 55 by 19.5 by 45.2 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 55 by 19.5 by 45.2 mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

2. Cover, Back - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 55 by 91.5 by 27.7 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, Overall approx. 55 by 91.5 by 27.7 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130°C, Overall approx. 55 by 91.5 by 27.7 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120°C, Overall approx. 55 by 91.5 by 27.7 mm, 2.5 mm thickness.
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.**
3. Case, Heater - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated Overall approx. 55 by 91.5 by 52.9 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 55 by 91.5 by 52.9 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 140°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 55 by 91.5 by 52.9 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 2)

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 55 by 91.5 by 52.9 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 120°C, HWI: 0, HAI: 0, CTI: 1)

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, Elec. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 0, Complies with DSR.

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

4. Terminal, Main - Steel plated, Overall approx. 14.2 by 27 by 39.9 mm, 2.5 mm thickness.
5. Connector - Copper, Overall approx. 11.5 by 44.7 by 46.3 mm, 2.5 mm thickness.

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

6. Bimetal - Cu-Ni-Mn-Fe alloy, Overall approx. 12 by 51.5 by 1 mm, 1 mm thickness.
7. Lever - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C, Overall approx. 9.6 by 19 by 3 mm, 2.2 mm thickness.
8. Shifter, B - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C, Overall approx. 39 by 6.5 by 8 mm, 2 mm thickness.
9. Shifter, A - R/C (QMF22), Hexion GmbH (E61040), Type PF85, rated HB, 150 °C, Overall approx. 39 by 5.8 by 8 mm, 1.5 mm thickness.

Alternate - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C.
10. Case, Lug - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, Overall approx. 55 by 55.3 by 17 mm, 1.55 mm thickness.

Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 55 by 55.3 by 17 mm, 1.55 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 55 by 55.3 by 17 mm, 1.55 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 55 by 55.3 by 17 mm, 1.55 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

*11. Case, Screw - R/C (QMF22), **BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491)**, Type A30H1V25, Overall approx. 55 by 41.8 by 15 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 55 by 41.8 by 15 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 55 by 41.8 by 15 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 55 by 41.8 by 15 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

12. Cover, Screw - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 55 by **63** by **24.6** mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type GP2259AF, rated V-2, 90 °C, Overall approx. 55 by **63** by **24.6** mm, 1.2 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 55 by **63** by **24.6** mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

13. Unit, Mounting - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, Overall approx. 55 by 104.9 by 107.5 mm, 2.2 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 55 by 104.9 by 107.5 mm, 2.2 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65 °C, Overall approx. 55 by 104.9 by 107.5 mm, 2.2 mm thickness.

Alternate - R/C (QMF22), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130 °C, Overall approx. 55 by 104.9 by 107.5 mm, 2.2 mm thickness.

Alternate - R/C (QMF22), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120 °C, Overall approx. 55 by 104.9 by 107.5 mm, 2.2 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXEISS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-63 + UZ-63 - FIG. 4 and FIG.5 (CONT'D)

14. Terminal, Mounting - Steel plated, Overall approx. 13.6 by 3.5 by 12 mm, 3.5 mm thickness.

MT-95 + UZ-95 - FIG. 6 and FIG.7

General - UZ-95 is separate mounting kits for MT-95. FIG. 6 represents an external view of model MT-95 + UZ-95 and FIG. 7 represents an internal view of model MT-95 + UZ-95. There are Lug type and Screw type. The difference of lug and screw type is connecting shape of main terminal and connector. Except of two parts, all parts of screw type are same as those of lug type.

1. Cover, Top - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 70 by 19.5 by 51.5 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type GP2259AF, rated V-2, 90°C, Overall approx. 70 by 19.5 by 51.5 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, Overall approx. 70 by 19.5 by 51.5 mm, 1.2 mm thickness.

Alternate - R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 70 by 19.5 by 51.5 mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

2. Cover, Back - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 70 by 101.5 by 33.3 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, Overall approx. 70 by 101.5 by 33.3 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130°C, Overall approx. 70 by 101.5 by 33.3 mm, 2.5 mm thickness.
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120°C, Overall approx. 70 by 101.5 by 33.3 mm, 2.5 mm thickness.
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.**
3. Case, Heater - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, Overall approx. 70 by 101.5 by 60.3 mm, 2.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 70 by 101.5 by 60.3 mm, 2.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120 °C, Overall approx. 70 by 101.5 by 60.3 mm, 2.5 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 120°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, Elec. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 0, Complies with DSR.**

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

4. Terminal, Main - Steel plated, Overall approx. 15.5 by 29 by 43.9 mm, 3 mm thickness.

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

5. Connector - Copper, Overall approx. 15 by 37.4 by 58 mm, 3 mm thickness.
6. Bimetal - Cu-Ni-Mn-Fe alloy, Overall approx. 12 by 51.5 by 1 mm, 1 mm thickness.
7. Lever - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C, Overall approx. 9.6 by 19 by 3 mm, 2.2 mm thickness.
8. Shifter, B - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C, Overall approx. 47 by 6.5 by 8 mm, 1.6 mm thickness.
9. Shifter, A - R/C (QMF22), Hexion GmbH (E61040), Type PF85, rated HB, 150 °C, Overall approx. 47.1 by 6.6 by 8 mm, 1.5 mm thickness.

Alternate - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h)(f2), rated V-0, 240 °C.
10. Case, Lug - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, Overall approx. 70 by 65.5 by 19 mm, 1.45 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 70 by 65.5 by 19 mm, 1.45 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 70 by 65.5 by 19 mm, 1.45 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 70 by 65.5 by 19 mm, 1.45 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

11. Case, Screw - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, Overall approx. 70 by 49 by **21.6** mm, 1.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, Overall approx. 70 by 49 by **21.6** mm, 1.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140°C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), Overall approx. 70 by 49 by **21.6** mm, 1.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 2)
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), Overall approx. 70 by 49 by **21.6** mm, 1.5 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 120°C, HWI: 0, HAI: 0, CTI: 1)
12. Cover, Screw - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 70 by 62.5 by 24.5 mm, 1.5 mm thickness.
- Alternate - R/C (QMF22), LG Chemical (E67171), Type **LUMID GP-2259AFL**, rated V-2, **140** °C, Overall approx. 70 by 62.5 by 24.5 mm, 1.5 mm thickness.
- Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, Overall approx. 70 by 62.5 by 24.5 mm, 1.5 mm thickness.
- Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP1100A(#), rated V-2, 65°C, Overall approx. 70 by 62.5 by 24.5 mm, 1.5 mm thickness.
- Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.**
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.**
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.**

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

13. Unit, Mounting - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, Overall approx. 70 by 114.9 by 120 mm, 2.5 mm thickness.

Alternate - R/C (QMF22), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, Overall approx. 70 by 114.9 by 120 mm, 2.5 mm thickness.

Alternate - R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, Overall approx. 70 by 114.9 by 120 mm, 2.5 mm thickness.

Alternate - R/C (QMF22), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130°C, Overall approx. 70 by 114.9 by 120 mm, 2.5 mm thickness.

Alternate - R/C (QMF22), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120°C, Overall approx. 70 by 114.9 by 120 mm, 2.5 mm thickness

Alternate - Same as above except R/C (QMF22), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMF22), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMF22), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-95 + UZ-95 - FIG. 6 and FIG.7 (CONT'D)

14. Terminal, Mounting - Steel plated, Overall approx. 16.8 by 12.1 by 3.6 mm, 4.5 mm thickness

MT-150 + UZ-150 - FIG. 8 and FIG.9

General - UZ-150 is separate mounting kits for MT-150. FIG. 8 represents an external view of model MT-150 + UZ-150 and FIG. 9 represents an internal view of model MT-150 + UZ-150. There are Lug type and Screw type. The difference of lug and screw type is connecting shape of main terminal and connector. Except of two parts, all parts of screw type are same as those of lug type.

1. Cover, Top - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, overall approx. 95 by 18.9 by 44.6 mm, 1.2 mm thickness.

Alternate - R/C (QMFZ2), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, overall approx. 95 by 18.9 by 44.6 mm, 1.2 mm thickness.

Alternate - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, overall approx. 95 by 18.9 by 44.6 mm, 1.2 mm thickness.

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, overall approx. 95 by 18.9 by 44.6 mm, 1.2 mm thickness.

Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 95 by 18.9 by 44.6 mm, 1.2 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

2. Cover, Back - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, overall approx. 95 by 104 by 40.6 mm, 2 mm thickness.
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, overall approx. 95 by 104 by 40.6 mm, 2 mm thickness.
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), rated V-0, 130°C, overall approx. 95 by 104 by 40.6 mm, 2 mm thickness.
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), rated V-0, 120°C, overall approx. 95 by 104 by 40.6 mm, 2 mm thickness.
- Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.
- Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.
- Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.**

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

3. Case, Heater - R/C (QMFZ2), WORLD BMC (E238813), Type PLAMIX 10U, overall approx. 95 by 104 by 70.9 mm, 2.4 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 0)

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), overall approx. 95 by 104 by 70.9 mm, 2.4 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 2)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), overall approx. 95 by 104 by 70.9 mm, 2.4 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 120°C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), WORLD BMC CO LTD (E238813), Type PLASET-10, overall approx. 95 by 104 by 70.9 mm, 2.4 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130°C, HWI: 0, HAI: 0, CTI: 0)

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, Elec. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 0, Complies with DSR.

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

4. Terminal, Main - Copper Alloy, overall approx. 20 by 32 by 58.4 mm, 2.6 mm thickness.
5. Connector - Copper Alloy, overall approx. 21.8 by 69.5 mm, 3 mm thickness.
6. Bimetal - Cu-Ni-Mn-Fe alloy, Overall approx. 12 by 51.5 by 1 mm, 1 mm thickness.
7. Lever - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C, Overall approx. 9.6 by 19 by 3 mm, 2.2 mm thickness.
8. Shifter, B - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C, overall approx. 69 by 6.8 by 8 mm, 1.6 mm thickness.
9. Shifter, A - R/C (QMFZ2/8), SOLVAY SPECIALTY POLYMERS USA L L C (E95746), Type R-7-120(h) (f2), rated V-0, 240 °C, overall approx. 69.1 by 6.6 by 8 mm, 1.5 mm thickness.
10. Case, lug - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130 °C, overall approx. 95 by 78 by 25 mm, 2 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, overall approx. 95 by 78 by 25 mm, 2 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), overall approx. 95 by 78 by 25 mm, 2 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), overall approx. 95 by 78 by 25 mm, 2 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

- *11. Case, Screw - R/C (QMFZ2), **BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491)**, Type A30H1V25, overall approx. 95 by 72 by 23 mm, 2 mm thickness.
Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, overall approx. 95 by 72 by 23 mm, 2 mm thickness. Complies with DSR.
(V-0, ELEC. RTI: 140 °C, HWI: 0, HAI: 0, CTI: 1)
- Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), overall approx. 95 by 72 by 23 mm, 2 mm thickness. Complies with DSR. (V-0, ELEC. RTI: 130 °C, HWI: 0, HAI: 0, CTI: 2)
- Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), overall approx. 95 by 72 by 23 mm, 2 mm thickness. Complies with DSR.
(V-0, ELEC. RTI: 120 °C, HWI: 0, HAI: 0, CTI: 1)

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

12. Cover, Screw - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, overall approx. 95 by 17.5 by 23 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LG Chemical (E67171), Type **LUMID GP-2259AFL**, rated V-2, **140 °C**, overall approx. 95 by 17.5 by 23 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, overall approx. 95 by 17.5 by 23 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, overall approx. 95 by 17.5 by 23 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GP-2251BF(#), rated V-0, 120°C, Overall approx. 95.0 by 17.5 by 23.0 mm, 2.0 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

MT-150 + UZ-150 - FIG. 8 and FIG.9 (CONT'D)

13. Unit, Mounting - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type A30H1V25, rated V-0, 130°C, overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LG Chemical (E67171), Type LUMID GP-2259AFL, rated V-2, 140 °C, overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type C52G2MV25, rated V-2, 65°C, overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LANXESS (E245249), Type DP2851/30H3.0+, rated V-0, 140°C, overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), GINAR TECHNOLOGY CO LTD (E154352), Type A0520FN(+), overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - R/C (QMFZ2), LG CHEMICAL LTD (E67171), Type GP-2251BF(#), overall approx. 95 by 117.4 by 140 mm, 2 mm thickness.

Alternate - Same as above except R/C (QMFZ2), BASF Engineering Plastics (Shanghai) Co., Ltd. (E507491), Type S 60X1 V30, Rated V-0, 130 °C.

Alternate - Same as above except R/C (QMFZ2), Lanxess AG (E245249), Type BKV20FN20+DUS048, Rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LG CHEM LTD (E67171), Type LUMID GN2259AFL, rated V-2, 140 °C.

Alternate - Same as above except R/C (QMFZ2), LANXESS AG (E245249), Type BKV30FN04, Rated V-0, 140 °C.