



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### Shunt Diode Barrier Assemblies

710±, 710ac, 715±, 722±, 728±, 728ac, 751ac, 755ac, 760ac, 761ac, 764±..  
 AIS / I,II,III / 1 / ABCDEFG - SCI-88 / 8; Entity

Model	Terminal	Max Entity Parameters					
		$V_t$ (V)	$I_t$ (mA)	$V_{oc}$ (V)	$I_{sc}$ (mA)	$C_a$ ( $\mu F$ )	$L_a$ (mH)
710±	3 to Gnd.	–	–	10.03	189	3	1.0
710ac	3 to Gnd.	–	–	10.03	189	3	1.0
715±	3 to Gnd.	–	–	15.06	146	0.7	1.4
722±	3 to Gnd.	–	–	22.08	146	0.2	1.4
728±	3 to Gnd.	–	–	28.12	93	0.12	4.0
728ac	3 to Gnd.	–	–	28.12	93	0.12	4.0
751ac	3 to Gnd.	–	–	0.96	89	1000	4.5
751ac	4 to Gnd.	–	–	0.96	89	1000	4.5
751ac	3 & 4	1.92	0.178	–	–	1000	1.2
755ac	3 to Gnd.	–	–	2.96	296	1000	0.4
755ac	4 to Gnd.	–	–	2.96	296	8976	0.4
755ac	3 & 4	5.92	592	–	–	150	0.1
760ac	3 to Gnd.	–	–	10.03	189	3	0.9
760ac	4 to Gnd.	–	–	10.03	189	3	0.9
760ac	3 & 4	10.03	377	–	–	3	0.2
761ac	3 to Gnd.	–	–	9.04	99	3.10	3.5
761ac	4 to Gnd.	–	–	9.04	99	3.10	3.5
761ac	3 & 4	18.08	198	–	–	0.40	1.0
764±	3 to Gnd.	–	–	12.05	12	1.50	200
764±	4 to Gnd.	–	–	12.05	12	1.50	200
764±	3 & 4	13.65	24	–	–	1.00	60
764ac	3 to Gnd.	–	–	12.05	12.0	1.50	200

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)  
 FM Approvals HLC 5/13

Max Entity Parameters							
Model	Terminal	$V_t$ (V)	$I_t$ (mA)	$V_{oc}$ (V)	$I_{sc}$ (mA)	$C_a$ ( $\mu$ F)	$L_a$ (mH)
764ac	4 to Gnd.	–	–	12.05	12.0	1.50	200
764ac	3 & 4	24.1	24	–	–	0.18	60
765ac	3 to Gnd.	–	–	15.08	147	0.70	1.3
765ac	4 to Gnd.	–	–	15.08	147	0.70	1.3
765ac	3 & 4	15.08	293	–	–	0.70	1.4
766ac	3 to Gnd.	–	–	12.05	80	1.50	5.6
766ac	4 to Gnd.	–	–	12.05	80	1.50	5.6
766ac	3 & 4	24.1	160	–	–	0.18	1.5
767±	3 to Gnd.	–	–	15.15	147	0.70	1.7
767±	4 to Gnd.	–	–	15.15	147	0.70	1.7
767±	3 & 4	16.75	294	–	–	0.50	0.4
768±	3 to Gnd.	–	–	22.13	147	0.20	1.7
768±	4 to Gnd.	–	–	22.13	147	0.20	1.7
768±	3 & 4	**Groups C&D only*		–	–	–	–
772ac	3 to Gnd.	–	–	22.13	73	0.20	6
772ac	4 to Gnd.	–	–	22.13	73	0.20	6
772ac	3 & 4	22.13	146	–	–	0.20	1.8
778ac	3 to Gnd.	–	–	28.23	46	0.12	14
778ac	4 to Gnd.	–	–	28.23	46	0.12	14
778ac	3 & 4	28.23	93	–	–	0.12	4.2
779±	3 to Gnd.	–	–	28.17	93	0.12	4
779±	4 to Gnd.	–	–	28.17	93	0.12	4
779±	3 & 4	**Groups C&D only*		–	–	–	–
787±	3 to Gnd.	–	–	28.54	94	0.11	4
787±	4 to Gnd.	–	–	28	0	0.12	500
787±	3 & 4	30.14	88.5	–	–	0.10	4
788±	3 to Gnd.	–	–	28.15	93	0.12	4
788±	4 to Gnd.	–	–	10.04	189	3.00	1
788±	3 & 4	28.95	282	–	–	0.11	0.5
796±	3 to Gnd.	–	–	26.1	86	0.14	4.7
796±	4 to Gnd.	–	–	20.5	51	0.30	13
796±	3 & 4	27.7	137	–	–	0.13	2

### Equipment Ratings:

Associated apparatus with Intrinsically safe outputs for connection to Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; hazardous (Classified) locations.

### FM Approved for:

Measurement Technology Ltd  
Great Marlings, Butterfield, Luton, United Kingdom



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	2011
Class 3610	2010
Class 3810	2005

Original Project ID: 1H8A1.AX

Approval Granted: January 27, 1984

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3045568	June 26, 2013		

FM Approvals LLC

J.E. Marquedant  
Group Manager, Electrical

1 July 2013

Date