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GENERAL INFORMATION

INTRODUCTION

The purpose of this paper is to provide a reference for all NG's standard power factor correction dry capacitors in round plastic cases. Please consult NG sales or customer service for further information at sales@ngm.com.mx. Tel. [52][55]5352-5244.

A key advantage of every film capacitor's internal construction is direct contact to the electrodes on both ends of the winding. This contact keeps all current paths very short. The design behaves like a large number of individual capacitors connected in parallel, thus reducing the internal Ohmic losses (ESR) and parasitic inductance (ESL). Metallized polypropylene film is used for its ability to operate at low temperatures and minimal loss of capacitance over the life of the capacitor.

APPLICATIONS

NG dry A.C. motor run capacitors are designed to be used in various types of applications like electric motors and HID ballasts. They are used as part of the current limiting circuit for power factor correction. The A.C. capacitors provide direction by shifting the current in the windings so that the motor simulates the operation of a two-phase motor. These motor run capacitor are designed specifically to be used with permanent split-phase capacitor motors in swimming pool, illumination, etc.

ELECTRICAL TESTING

NG dry motor run capacitors are designed to meet performance testing outlined in the EIA-456 standard. Test programs are run continuously at NG and at third party laboratories to monitor production and for design improvements. These tests confirm reliable performance of NG capacitors used within rated conditions. Ongoing tests include: accelerated life, over voltage, mechanical strength, terminal to terminal and terminal to case voltage tests. Upon request NGM offers capacitor in compliance with European standards as IEC 60252-1

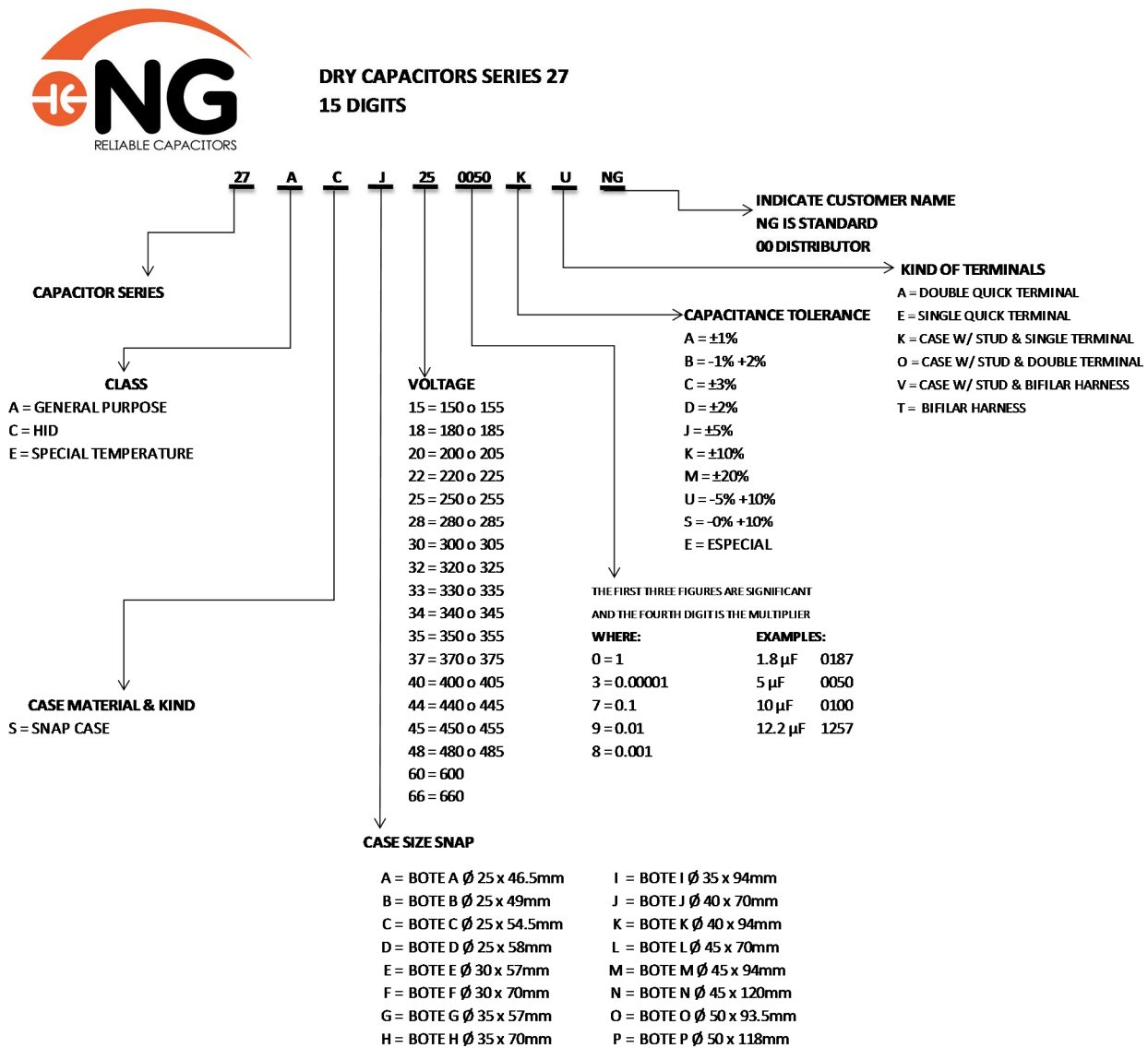
FEATURES

- Non-corrosive, flame-retardant UL 94.
- Meets all EIA-456 standards, UL 810, C22.2 No.190 or IEC 60252
- RoHS2 and Reach compliance
- 60,000 hours operational life on EIA 456 or 30,000 , 10,000 and 3,000 hours on IEC 60252-1
- Self-clearing metallized polypropylene film.
- Automated assembly for consistent results.
- Light weight and cost effective.
- High performance in several applications.
- Protected design for a safe failure mode (upon request , UL certification open project)

MARKING

- Manufacturer's name and/or UL file number, authorized trade name or trademark.
- The catalog part number or the equivalent.
- The capacitance in microfarads. (uF)
- Rating voltage.
- Work frequency in Hertz.
- Rating temperature.
- Lot number and date.

PART NUMBERING SYSTEM



OUTLINE DRAWINGS AND DIMENSIONS

TERMINALS ON COVERS AVAILABLE



¼"x0.032" Double Quick Connector with off-set



¼"x0.032" Double Quick Connector



¼"x0.032" Single Quick Connector with off-set



¼"x0.032" Single Quick Connector



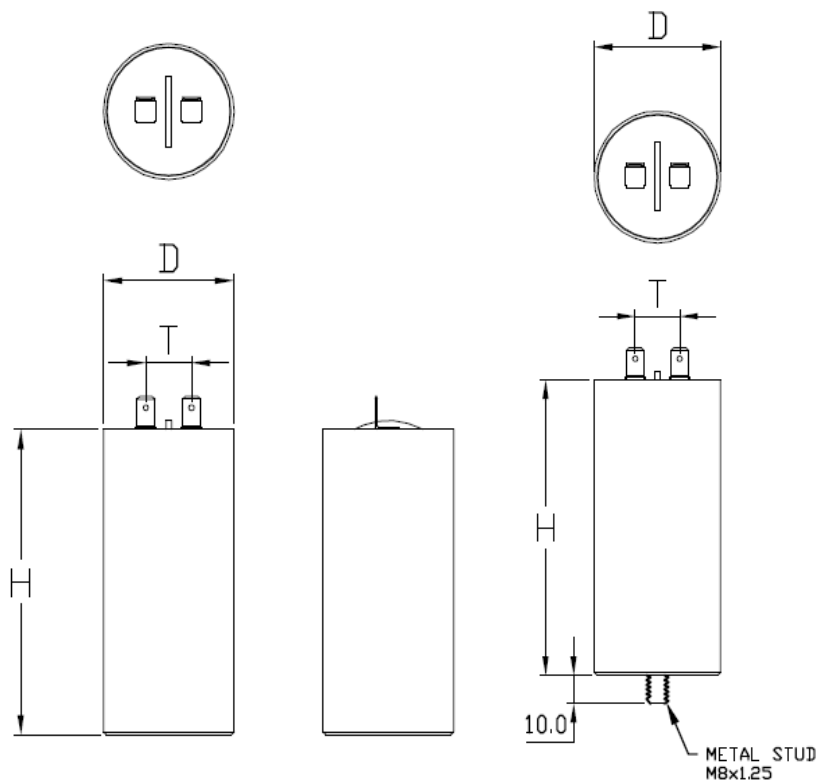
Single Mini Quick Connector [0.112"x0.020"]



Plug for bifilar cable harness

SNAP CASE					
CASE	Can Size			Plain Case	Case with Aluminum Stud [Only upon request]
	D mm	H mm	T* mm		
A	Ø 25	46.5	13.5	AVAILABLE	--
B	Ø 25	49	13.5	AVAILABLE	--
C	Ø 25	54.5	13.5	AVAILABLE	--
D	Ø 25	58	13.5	AVAILABLE	--
E	Ø 30	57	13.5	AVAILABLE	AVAILABLE
F	Ø 30	70	13.5	AVAILABLE	AVAILABLE
G	Ø 35	57	13.5	AVAILABLE	AVAILABLE
H	Ø 35	70	13.5	AVAILABLE	AVAILABLE
I	Ø 35	94	13.5	AVAILABLE	AVAILABLE
J	Ø 40	70	13.5	AVAILABLE	AVAILABLE
K	Ø 40	94	13.5	AVAILABLE	AVAILABLE
L	Ø 45	70	13.5	AVAILABLE	AVAILABLE
M	Ø 45	94	13.5	AVAILABLE	AVAILABLE
N	Ø 45	120	13.5	AVAILABLE	AVAILABLE
O	Ø 50	93.5	13.5	AVAILABLE	AVAILABLE
P	Ø 50	118	13.5	AVAILABLE	AVAILABLE

* in terminals with off-set this dimension change to 15.85mm
 In mini-faston terminals available from 9.53mm



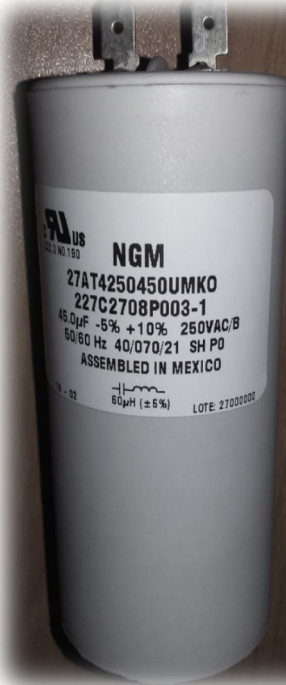
SPECIFICATIONS AND PERFORMANCE CHARACTERISTICS 27 SERIES

PARAMETER	CHARACTERISTICS 27 SERIES
Capacitance Range:	1 up to 180uF
Rated voltage	Up to 660Vac (Available with UL up to 480Vac)
Rated frequency	45 ~ 66 Hz
Temperature Rating	-40°C up to 100°C (Available with UL up to 90°C)
Tangent of the loss angle	0.1% maximum at 25°C, 60Hz.
Dielectric Strength Terminal to Terminal	1.75 x rated A.C. voltage for ten seconds.
Dielectric Strength Terminal to Case	2 x rated A.C. voltage plus 1000 for one minute.
Impregnation or potting	Polyurethane Resin
Mounting	Vertical, Horizontal & facedown Position.
Mounting Accessories	Stud M8 upon request
Connection	Quick Connector terminals 1/4" x 0.032" Mini-faston (ref: 0.112" x 0.020") Cables harness & bifilar cable
Service life	>60,000 hours
Standard	UL – ANSI/UL - 810 Capacitor Construction UL - CSA-C22.2 No.190 Capacitor Construction UL-810 protected design (in project) EIA-456
International directives	RoHS2 and REACH
Storage Temperature	-40 to 100 °C
Dielectric	Polypropylene SH
Internal inductor	Upon request
UL file	E130758

Screw on the bottom case available from diameters of 30mm up to 50mm, Additional accessories upon request, plastic sleeve, end caps, etc.

SIZE CASE PER CAPACITANCE AND RATED VOLTAGE

Rated voltage/ Capacitance @ 70°C			
Case size (Diameter x Height) [mm]	250 Vac	400 Vac	450 Vac
	Capacitance [μ F]		
25 x 46.5	8	3.5	2.5
25 x 54.5	11	5	3.5
30 x 57	20	7.5	6
35 x 57	27	12	9.5
30 x 70	26	11	9
35 x 70	39	17	13
40 x 70	55	25	18
45 x 70	72	32	24
30 x 94	40	17	12.5
35 x 94	55	25	19
40 x 94	75	35	25
45 x 94	100	45	34
50 x 93	130	58	42
45 x 120	140	62	45
50 x 118	175	80	58



CERTIFICATE OF COMPLIANCE

Certificate Number 20150428-E130758
Report Reference E130758-19960116
Issue Date 2015-APRIL-28

Issued to: NUEVA GENERACION MANUFACTURAS S A DE CV
AV TEZOSOMOC 239
FRACC INDUSTRIAL SAN ANTONIO
02760 AZCAPOTZALCO
DF MEXICO

This is to certify that COMPONENT - CAPACITORS, CONSTRUCTION ONLY
representative samples of Series 27

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

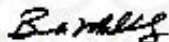
Standard(s) for Safety: UL 810, Part I, Capacitors
CSA-C22.2 No. 190, Capacitors for Power Factor
Correction

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance
capabilities and are intended for use as components of complete equipment submitted for investigation rather
than for direct separate installation in the field. The final acceptance of the component is dependent upon its
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at www.ul.com/about/localoffice



DISPOSAL

The materials used in our capacitors do not exceed the limits for chemical substances specified in the following national regulations:

- Chemicals prohibition regulation.
- CFC halogen prohibition regulation.
- European Chemical Agency [ECHA] REACH article 67 for Electronic and Electrical Equipment.
- Restriction of Hazardous Substances [RoHS2] directive.

Our Dry capacitors don't contain any means of impregnation with PCB.

The capacitors can be disposed as follows:

- Disposal to European Waste Catalogue 160205 (capacitors filled with plant oil/resin).
- Hardened filling materials: To EWC 080404 (solidified adhesives and sealants).
- Liquid filling materials which may have emerged from the capacitor shall be absorbed by proper granules and disposed of in accordance with European Waste Catalogue 080410 (PUR resin residues, not solidified).

Caution: When touching or wasting capacitors with activated break-action mechanism, please consider that even after days and weeks these capacitors may still be charged with high voltages.

Consult your national rules and restrictions for waste and disposal.