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# Customer information packet

## CHM365A

.5HP, 1140RPM, 3PH, 60HZ, 56YZ, 3418M, TEAO, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEAO                                                        |
| Frame                          | 56YZ                                                        |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | .500 HP @ 60 HZ                                             |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | UR<br>CSA                                                   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | Resilient                                                   |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 1.200 A @ 460.0 V<br>2.400 A @ 230.0 V<br>2.700 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 72.0 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |
| Front Face Code                | Resilient Mount                                             |
| Front Shaft Indicator          | None                                                        |
| Heater Indicator               | No Heater                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  | 34M249     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WGW529   |
| Layout       | 34LYM249   |
| Eff. date    | 10-28-2024 |
| CD Diagram   | CD0007     |
| Poles        | 06         |
| Leads        | 12#18      |
| Proprietary  | False      |
| Created date | 05-24-2013 |

|                               |                             |
|-------------------------------|-----------------------------|
| High Voltage Full Load Amps   | 1.2 a                       |
| Insulation Class              | B                           |
| Inverter Code                 | Not Inverter                |
| KVA Code                      | J                           |
| Lifting Lugs                  | No Lifting Lugs             |
| Locked Bearing Indicator      | No Locked Bearing           |
| Motor Lead Exit               | Terminal Panel Or Lead Hole |
| Motor Lead Quantity/Wire Size | 12 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 3418M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 6                           |
| Overall Length                | 12.70 IN                    |
| Power Factor                  | 55                          |
| Product Family                | General Purpose             |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | Resilient Mount             |
| Pulley Shaft Indicator        | Standard                    |
| Rodent Screen                 | None                        |
| RoHS Status                   | ROHS COMPLIANT              |
| Service Factor                | 1.25                        |
| Shaft Diameter                | 0.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| Shaft Ground Indicator        | No Shaft Grounding          |
| Shaft Rotation                | Reversible                  |
| Shaft Slinger Indicator       | No Slinger                  |
| Speed                         | 1140 rpm                    |
| Speed Code                    | Single Speed                |
| Starting Method               | Direct on line              |
| Thermal Device - Bearing      | None                        |
| Thermal Device - Winding      | None                        |
| Vibration Sensor Indicator    | No Vibration Sensor         |
| Winding Thermal 1             | Automatic Thermal Overload  |

**Winding Thermal 1 Location**

**SB**

## Nameplate

| NP1257L      |              |      |      |     |    |    |    |   |  |
|--------------|--------------|------|------|-----|----|----|----|---|--|
| CAT.NO.      | CHM365A      |      |      |     |    |    |    |   |  |
| SPEC.        | 34M249W529G1 |      |      |     |    |    |    |   |  |
| HP           | .5           |      |      |     |    |    |    |   |  |
| VOLTS        | 230/460      |      |      |     |    |    |    |   |  |
| AMP          | 2.4/1.2      |      |      |     |    |    |    |   |  |
| RPM          | 1140         |      |      |     |    |    |    |   |  |
| FRAME        | 56YZ         |      |      | HZ  | 60 |    | PH | 3 |  |
| SER.F.       | 1.25         | CODE | J    | DES | B  | CL | B  |   |  |
| NEMA-NOM-EFF | 72           | PF   | 55   |     |    |    |    |   |  |
| RATING       | 40C AMB-CONT |      |      |     |    |    |    |   |  |
| CC           |              |      |      |     |    |    |    |   |  |
| DE           | 6203         | ODE  | 6203 |     |    |    |    |   |  |
| ENCL         | TEAO         | SN   |      |     |    |    |    |   |  |
|              | SFA 2.6/1.3  |      |      |     |    |    |    |   |  |

**AC Induction Motor Performance Data**

Record # 42100

Typical performance - not guaranteed values

| Winding: 34WGW529-R006 |    |              | Type: 3418M                              |                           | Enclosure: TEAO  |                       |     |        |
|------------------------|----|--------------|------------------------------------------|---------------------------|------------------|-----------------------|-----|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>High Voltage Connection |                           |                  |                       |     |        |
| Rated Output (HP)      |    | .5           | Full Load Torque                         |                           | 2.3 LB-FT        |                       |     |        |
| Volts                  |    | 230/460      | Start Configuration                      |                           | direct on line   |                       |     |        |
| Full Load Amps         |    | 2.4/1.2      | Breakdown Torque                         |                           | 7.7 LB-FT        |                       |     |        |
| R.P.M.                 |    | 1140         | Pull-up Torque                           |                           | 6 LB-FT          |                       |     |        |
| Hz                     | 60 | Phase        | 3                                        | Locked-rotor Torque       |                  | 6.2 LB-FT             |     |        |
| NEMA Design Code       |    | B            | KVA Code                                 | J                         | Starting Current |                       | 5 A |        |
| Service Factor (S.F.)  |    | 1.25         | No-load Current                          |                           | 0.95 A           |                       |     |        |
| NEMA Nom. Eff.         |    | 72           | Power Factor                             |                           | 55               | Line-line Res. @ 25°C |     | 39.6 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load   |                  |                       |     |        |
| S.F. Amps              |    | 2.6/1.3      |                                          | Temp. Rise @ S.F. Load    |                  |                       |     |        |
|                        |    |              |                                          | Locked-rotor Power Factor |                  | 63                    |     |        |
|                        |    |              |                                          | Rotor inertia             |                  | 0.0428 LB-FT2         |     |        |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 20   | 34   | 45   | 55   | 62   | 68   | 62   |
| Efficiency      | 48   | 63   | 67   | 72   | 72   | 71   | 72   |
| Speed           | 1185 | 1170 | 1155 | 1140 | 1120 | 1100 | 1120 |
| Line amperes    | 0.95 | 1    | 1.1  | 1.2  | 1.3  | 1.5  | 1.3  |

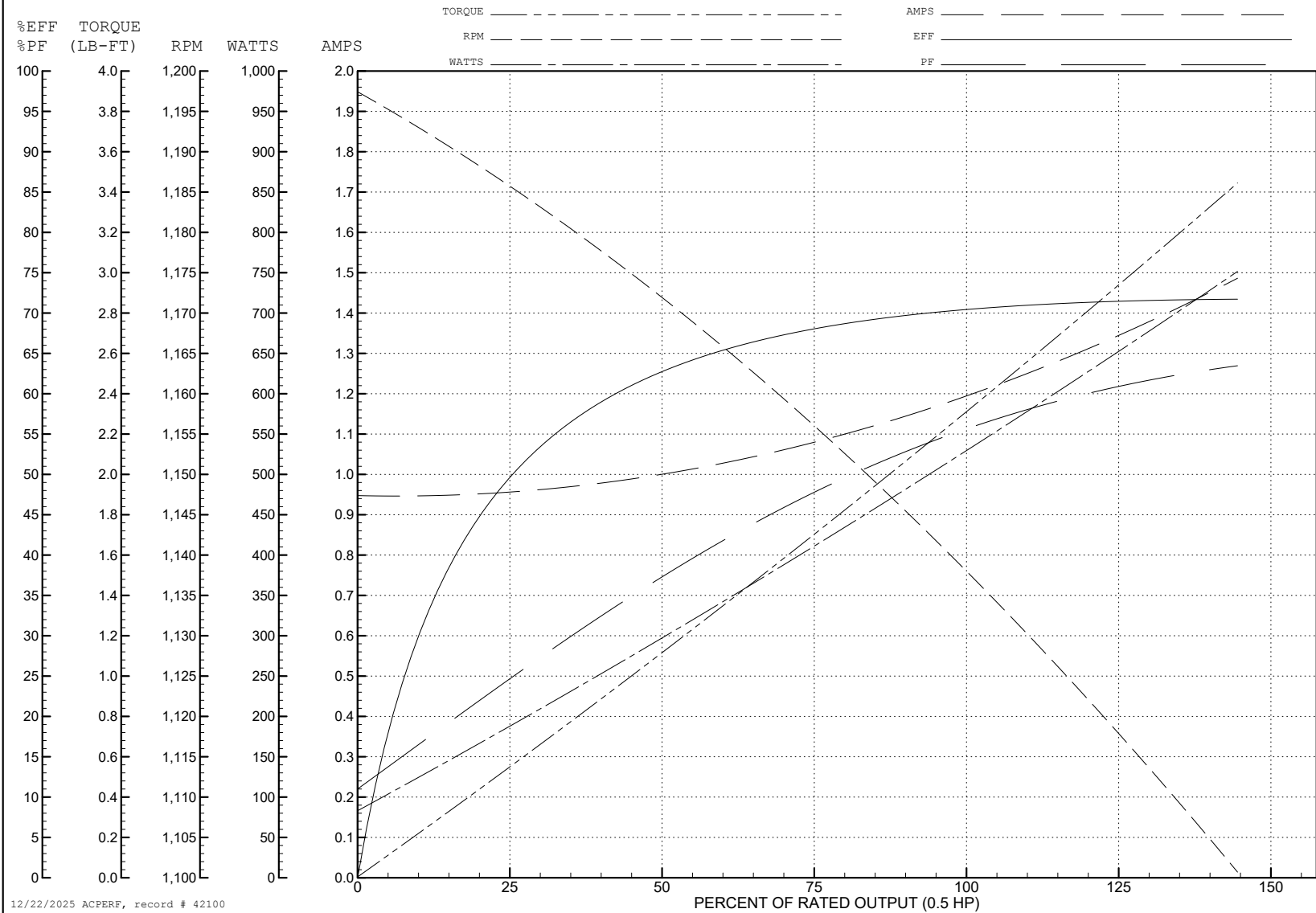
ABB Motors and Mechanical Inc.

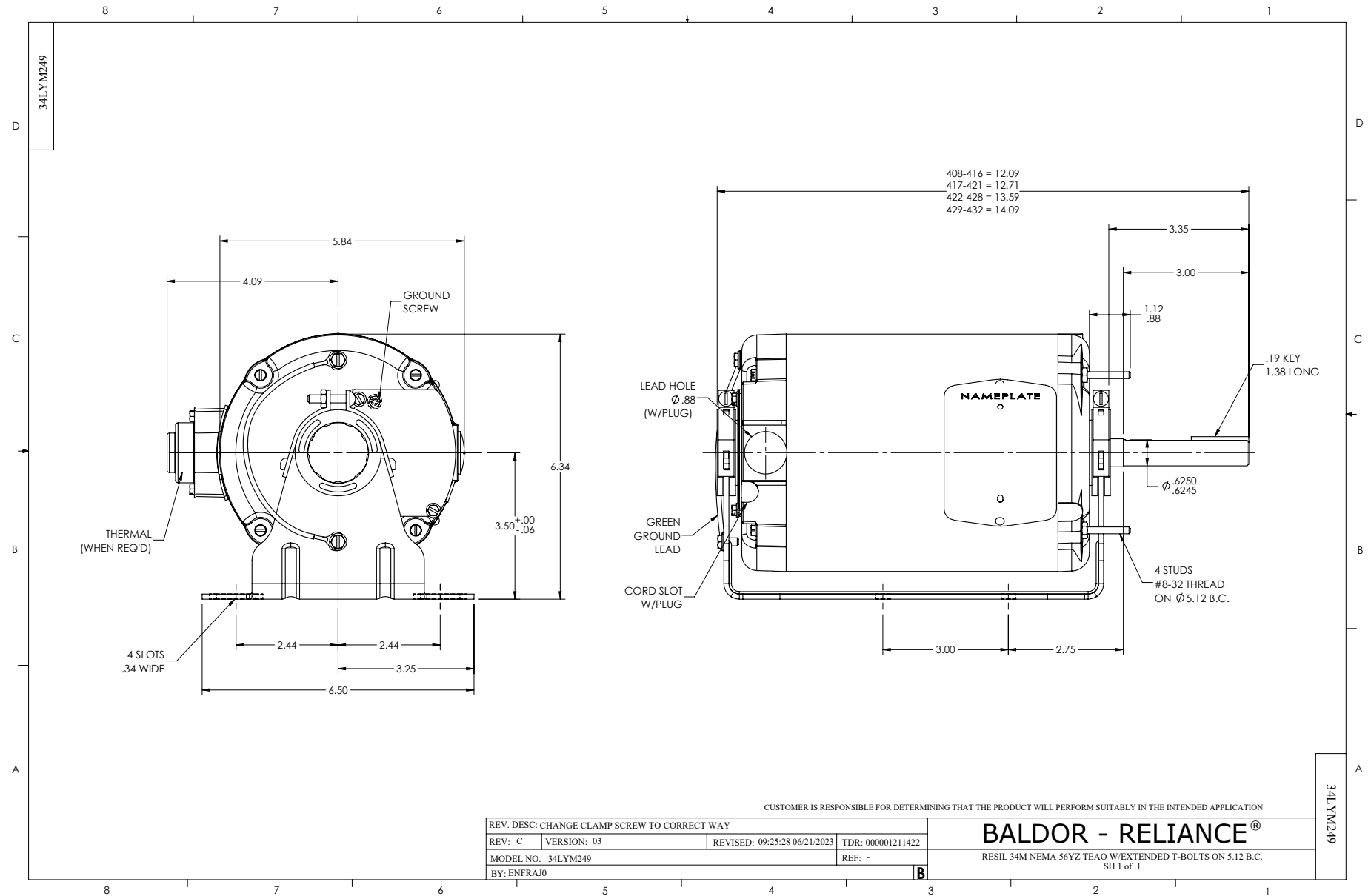
WINDING # 34WGW529

Typical performance - not guaranteed values.

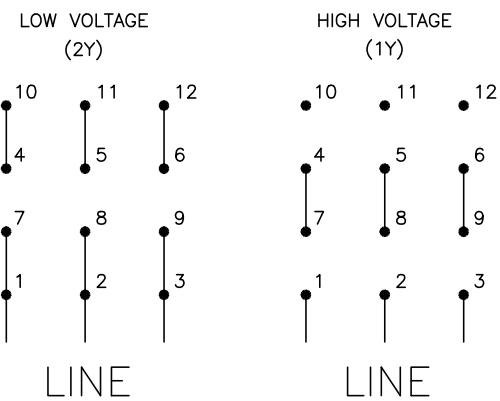
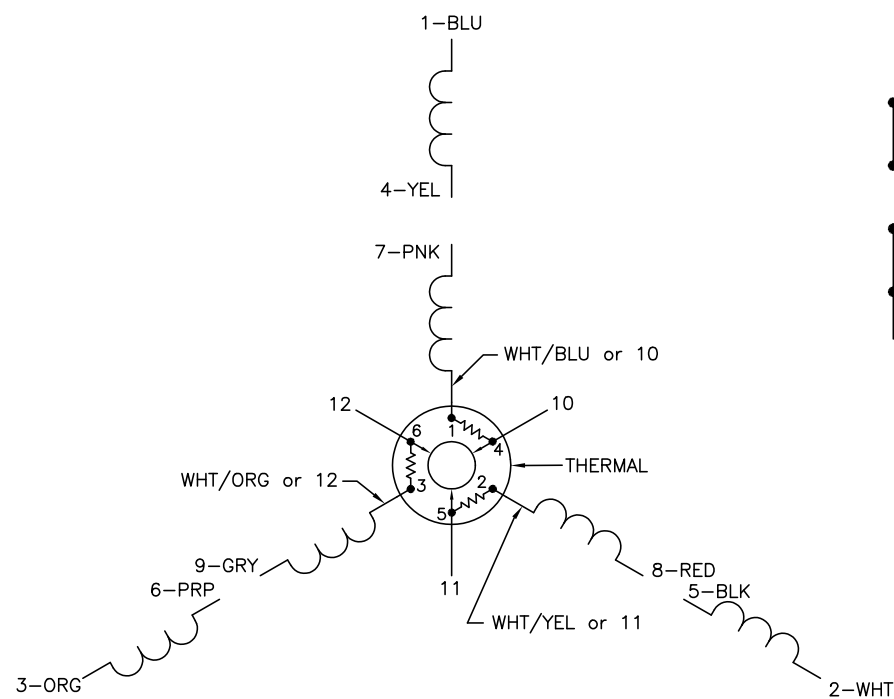
0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3418M

TORQUES (LB-FT) : PO=7.7 PU=6 LR=6.2 LRA=5





CD0007



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0007

|                                  |         |                        |              |
|----------------------------------|---------|------------------------|--------------|
| REV. DESC: ADDED "CK" PLANT CODE |         |                        |              |
| REV. LTR: E                      | BY: EAH | REVISED: 05/06/99 17:1 | TDR: 0181040 |
| 200000                           |         | FILE: AAA00008370      | MDL: -       |
|                                  |         | MTL: -                 |              |

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS